The background of the page is a light blue gradient with a faint, semi-transparent image of a Samsung laptop keyboard. The keyboard is angled, showing the top right section with keys like 'Y', 'U', 'I', 'O', 'P', 'H', 'J', 'K', 'L', 'N', 'M', and the arrow keys. The 'SAMSUNG' logo is visible on the bottom left of the keyboard frame.

Chapter 1.

Getting Started

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Small but Strong UMPC (Ultra Mobile PC)

- Intel ULV CPU (Optional)
- 512MB~Up To 1GB DDR2 Memory



7" WSVGA TFT LCD

- Basic Resolution of 1024x600 Pixels, Maximum Resolution of 2048x1536 Pixels (when an external display is connected)
- A Touch Screen and Touch Sensor buttons (optional) have been adopted allowing convenient input with your fingers.
- A Keypad has been adopted to easily enter characters
- A convenient mouse function (Mouse/Joystick, Mouse Button applied)



Powerful Multimedia Functions

- Various Multimedia Programs Such as Play AVStation etc.
- Dual camera for photographing and video recording (Optional)



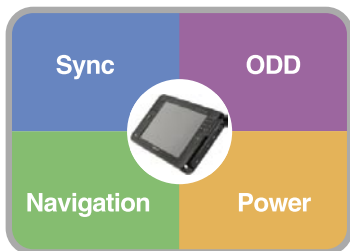
Multiple Network Support

- Wired LAN, Wireless LAN, Bluetooth (Optional)
- Resolves Space Restrictions through the Wireless Communication Function



Compact, Light-Weight Design for Portability / Polished Design

- A mere 690g (1.52lb) (Without optional items)
- High-Gloss Front Panel



Optional Accessories for Additional Convenience

- USB Data Cable Enabling Data Exchange with another PC.
- USB External ODD(Optical Disk Drive), Ultra-Slim USB External Keyboard
- Power Bank to Extend Usage Time

Before You Start

Before reading the User Guide, first check the following information.

User Guide Information

This product is supplied with an **Getting Started Guide**, and a **User Guide**.

You can even more easily and conveniently use the computer by using any of the guides depending on your needs.

Getting Started Guide

This guide is provided so that you can conveniently refer to this guide when using the computer for the first time after purchasing it.

User Guide

The document you are currently reading is the User Guide. You can read it by double-tapping the icon on the Desktop.

This document includes the computer functions, how to use the functions, and how to use the program.

Utilizing the User Guide

- ❶ Be sure to read the **Safety Precautions** before using the computer.
- ❷ For basic usage of the computer refer to the additionally supplied **Getting Started Guide**.
- ❸ Refer to the **User Guide** for the procedures to use the computer.
- ❹ Using the **Index** of the User Guide, you can easily find any information you are looking for.
- ❺ Using the **Glossary** of the User Guide, you can easily find meanings for technical terms.
- ❻ If a problem occurs, refer to the **Q & A** included in the User Guide.



- Some devices and software referred in the User Guide may not be provided and/or changed by upgrade.
Note that the computer environment referred in the User Guide may not be the same as your own environment.
- The image used for the cover and text of the User Guide may not be the same as actual ones.



- This guide describes procedures for both the mouse and the stylus pen together. A '**Click**' in this manual refers to a '**Single-tap**' for the Stylus Pen.
- The figures in this guide are provided assuming that your operating system is Windows Vista. The figures are subject to change.
- The User guide supplied with computer may be varied depending on model.

Safety Precaution Notations

Icon	Notation	Description
	Warning	Failing to follow instructions marked with this symbol, may cause personal injury and or fatality.
	Caution	Failing to follow instructions marked with this symbol, may cause slight injury to yourself or damage your property.

Text Notations

Icon	Notation	Description
	Before You Start	Content included in this section includes information required before using a function.
	Caution	Content included in this section includes information required about the function.
	Note	Content included in this section includes helpful information to use the function.
	Page XX	This notation represents the page number you can refer to for information about related functions or as a reference.
	Start > All Programs > Samsung > User Guide > User Guide	This represents a menu path to run a program. Click the Start button and then select All Programs > Samsung > User Guide > User Guide in this order from the menu.

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No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, without the consent of Samsung Electronics Co., Ltd.

The information in this document is subject to change without notice due to improving the performance of the product.

Samsung Electronics shall not be liable for any data loss. Please take care to avoid losing any important data and backup your data to prevent any such data loss.

Precautions for Operating System Support

The operating system (OS) installed on this product is the latest version of Windows Vista. You cannot install an operating system other than Windows Vista as well as any unauthorized copy of Windows Vista.

Example) When trying to install Windows Vista Home Premium when Windows Vista Home Basic is already installed.

Other operating systems (Windows 98, Windows ME, Windows 2000, Windows 2003 server, UNIX and LINUX, other Windows Vista versions, etc.) other than the operating system already installed on this computer are not supported.

If a problem occurs because of the installation of another operating system, the company will not provide technical support, a replacement or refund, and if our service engineer visits you due to this problem, a service charge will be applied.

In addition, installing a program that does not support Windows Vista, may cause the program to not work properly.

In this case, ask the corresponding software manufacturer about the problem. If you request our services to resolve a problem caused by incompatible software, a service charge will be applied.

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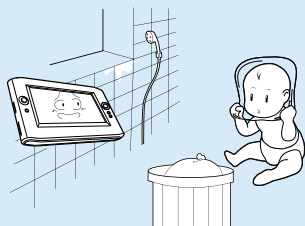
Safety Precautions

For your security and to prevent damage, please read the following safety instructions carefully. Since this is commonly applied to Samsung Computers, some figures may differ from actual ones.

Warning

Failing to follow instructions marked with this symbol may cause personal injury and even fatality.

Installation Related

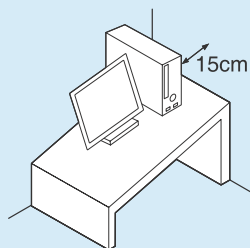


Do not install the product in places exposed to humidity such as a bathrooms.

There is a danger of electric shock. Use the product within the operating conditions specified in the Manufacturers User Guide.

Keep the plastic bags out of the reach of children.

There is a danger of suffocation.



Keep a distance of 15cm or more between the computer and the wall and do not place any objects between them.

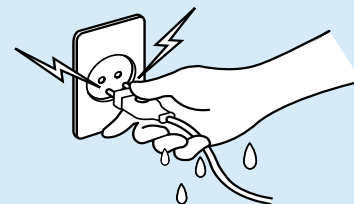
This may increase the internal temperature of the computer and may cause an injury.

Do not install the computer on a slant or a place prone to vibrations, or avoid using the computer in that location for a long time.

This increases the risk that a malfunction or damage to the product will occur.

Power Related

The power plug and wall outlet figures may differ depending on the country specifications and the product model.

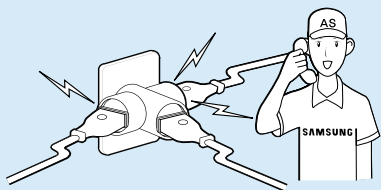


Do not touch the mains plug or power cord with wet hands.

There is a danger of electric shock.

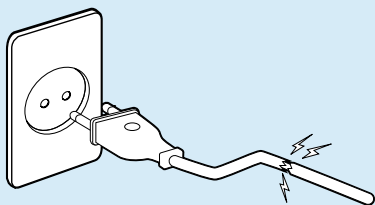
Do not exceed the standard capacity (voltage/current) of a multi-plug or power outlet extension when using it for the product.

There is a danger of electric shock or fire hazard.



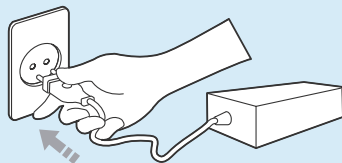
If the power cord or power outlet makes a noise, disconnect the power cord from the wall outlet and contact a service center.

There is a danger of electric shock or fire hazard.

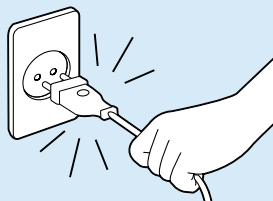


Do not use a damaged or loose mains plug or power cord or power outlet.

There is a danger of electric shock or fire hazard.

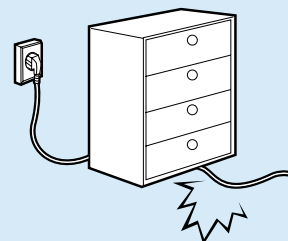


Plug the power cord firmly into the power outlet and AC adapter.
Failing to do so may cause fire hazard.



Do not unplug the power cord out by pulling the cable only.

If the cord is damaged, it may cause electric shock.

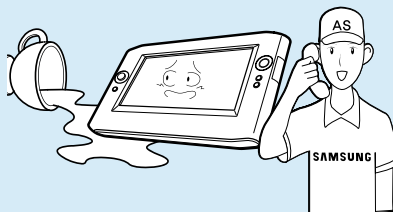


Do not bend the power cord excessively or do not place a heavy object over the power cord. It is especially important to keep the power cord out of reach of infants and pets.

If the cord is damaged, it may cause electric shock or fire.

Use a wall outlet or multi-plug with a grounding part.

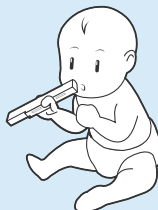
Failing to do so may cause electric shock hazard.



If water or another substance enters the power input jack, AC adapter or the computer, disconnect the power cord and contact the service center.

Damage to the device within the computer may cause electric shock or fire hazard.

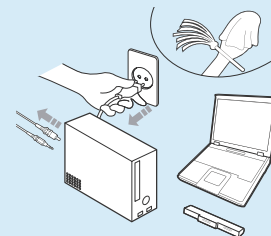
Battery Usage Related



Keep the battery out of the reach of infants and pets, as they could put the battery into their mouths.

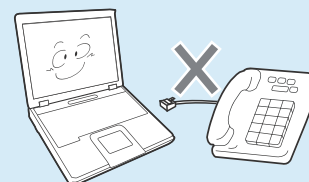
There is a danger of electric shock or choking.

Usage Related



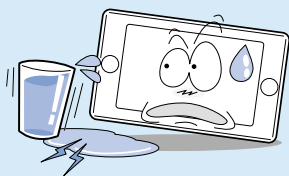
Disconnect all cables connected to the computer before cleaning it. If you are using a notebook computer, remove the battery.

There is a danger of electric shock or damage to the product.



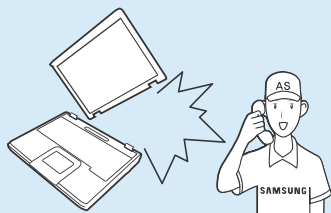
Do not connect a phone line connected to a digital phone to the modem.

There is a danger of a electric shock, fire or damage to the product.



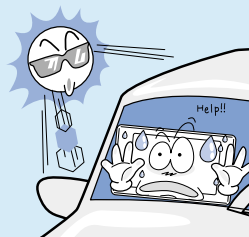
Do not place any container filled with water or chemicals over or near the computer.

If water or chemicals enter the computer, this may cause fire or electric shock.



If the computer is broken or dropped, disconnect the power cord and contact a service center for a safety check.

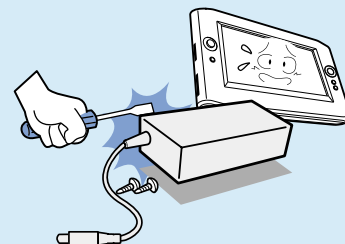
Using a broken computer may cause electric shock or fire hazard.



Avoid direct sunlight when the computer is in an air-tight location such as inside a vehicle.

There is a danger of a fire hazard. The computer may overheat and also present opportunity to thieves.

Upgrade Related



Never disassemble the power supply or AC adapter.

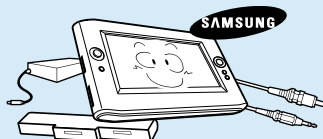
There is a danger of electric shock.

When removing the RTC (Real Time Clock) battery, keep it out of the reach of children as they could touch and/or swallow it.

There is a danger of choking. If a child has swallowed it, contact a doctor immediately.

Use only authorized parts (multi-plug, battery and memory) and never disassemble parts.

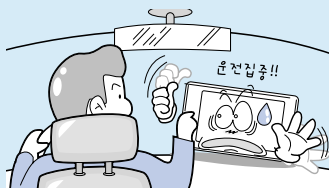
There is a danger of damaging the product, electric shock or fire hazard.



Shut down the computer and disconnect all cables before disassembling the computer. If there is a modem, disconnect the phone line. If you are using a notebook computer, make sure to remove the battery.

Failing to do so, may cause electric shock.

Custody and Movement Related



Follow the instructions for the relevant location (e.g. airplane, hospital, etc.) when using a wireless communication device (wireless LAN, Bluetooth, etc.).

Caution

Failing to follow instructions marked with this symbol may cause slight injury or damage to the product.

Installation Related

Do not block the ports (holes), vents, etc. of the product and do not insert objects.

Damage to a component within the computer may cause electric shock or fire.

When using the computer with it lying on its side, place it so that the vents face upwards.

Failing to do so, may cause the internal temperature of the computer to rise and the computer to malfunction or halt.

Do not place a heavy object over the product.

This may cause a problem with the computer. In addition, the object may fall and cause injury, or damage the computer.

Battery Usage Related

Dispose of worn-out batteries properly.

- There is a danger of fire or explosion.
- The battery disposal method may differ depending on your country and region. Dispose of the used battery in an appropriate way.

Do not throw or disassemble the battery and do not put it into water.

This may cause an injury, fire or explosion.

Use only a battery authorized by Samsung Electronics.

Failing to do so may cause an explosion.

Avoid contact with metal objects such as car keys or clips when keeping or carrying a battery.

Contact with a metal may cause excessive current and a high temperature and may damage the battery or cause a fire.

Charge the battery according to the instructions in the manual.

Failing to do so, may cause an explosion or fire from damage to the product.

Do not heat the battery or expose it to heat (e.g. inside a vehicle during the summer).

There is a danger of explosion or fire.

Usage Related

Do not place a candle, lighted cigar, etc. over or on the product.

There is a danger of fire.

Make sure to have the product tested by a safety service engineer after repairing the product.

Authorised Samsung Repair Centers will carry out safety checks after a repair. Using a repaired product without testing it for safety might cause electric shock or fire.

In case of lightning, immediately turn the system off, disconnect the power cord from the wall outlet and line do not use a modem or phone.

There is a danger of electric shock or fire.

Connect only permitted devices to the connectors or ports of the computer.

Failing to do so, may cause electric shock and fire.

Close the LCD panel only after checking if the notebook computer is turned off.

The temperature may rise and it may cause overheating and deformation of the product.

Do not press the Eject Button while the Floppy Disk/CD-ROM drive is in operation.

You might lose data and the disk might be suddenly ejected and could cause an injury.

Take care not to drop the product while using it.

This may cause personal injury or loss of data.

Do not contact the antenna with electricity facility such as the power outlet.

There is a danger of electric shock.

When handling computer parts, follow the instructions on the manual supplied with the parts.

Failing to do so, may cause damage to the product.

If the computer emits smoke, or there is a burning smell, disconnect the power plug from the wall outlet and contact a service center. If your computer is a note-book computer, make sure to remove the battery.

There is a danger of fire.

Do not use a damaged or modified CD/Floppy Disk.

There is a danger of damaging the product or personal injury.

Do not insert your fingers into the PC Card Slot.

There is a danger of injury or electric shock.

Use recommended computer cleansing solution when cleaning the product and only use the computer when it is completed dried.

Failing to do so may cause electric shock or fire.

Emergency disk eject method using paperclip should not be used while the disk is in motion. Make sure to use the emergency disk eject method only when the Optical Disk Drive is stopped.

There is a danger of injury.

Do not place your face close to the Optical Disk Drive tray when it is operating.

There is a danger of injury due to an abrupt ejection.

Check CDs for cracks and damage prior to use.

It may damage the disc and cause disorder of device and injury of user.

Upgrade Related

Take care when touching the product or parts.

The device may be damaged or you may be injured.

Take care not to throw or drop a computer part or device.

This may cause injury or damage to the product.

Make sure to close the computer cover before connecting the power after a reassembly.

There is a danger of electric shock if your body touches an internal part.

Use parts authorized by Samsung Electronics only.

Failing to do so, may cause fire or damage the product.

Never disassemble or repair the product by yourself.

There is a danger of electric shock or fire.

To connect a device that is not manufactured or authorized by Samsung Electronics, enquire at your service center before connecting the device.

There is a danger of damaging the product.

Custody and Movement Related

When moving the product, turn the power off and separate all connected cables first.

The product might be damaged or users may trip over the cables.

For long periods of not using the notebook computer, discharge the battery and preserve as it is detached.

The battery will be preserved at its best condition.

Keep the Stylus Pen out of reach of children.

Children may injure themselves by swallowing it or damaging their eyes.

Use a computer cleansing solution when cleaning the product.

Using a cleansing solution or chemical that is not developed for a computer may damage the product.

Do not use or watch the computer while driving a vehicle.

This may cause a traffic accident. Concentrate on driving.

LCD Related

LCD Bad Pixels

The limits of LCD manufacturing technology permit a maximum of 4 abnormal or bad pixels, which does not affect the system performance. This system may have the same level of abnormal or bad pixels as any other company's products.

Cleaning the LCD

When cleaning the LCD panel, use only computer specific cleaners with a soft cloth, and lightly wipe in one direction. Pressing down hard may damage the LCD.

Cautions on Preventing Data Loss (Hard Disk Management)

To prevent data loss due to damage to the hard disk drive, please backup your data frequently.

Take care not to damage the data on a hard disk drive.

- A hard disk drive is so sensitive to external impact that an external impact may cause loss of data on the surface of the disk.
- Take extra care, because moving the computer or an impact on the computer when it is turned on may damage the data of the hard disk drive.
- The company is not liable for the loss of any data caused by customer such as the carelessness usage or bad environmental condition.

Causes that may damage the data of a hard disk drive and the hard disk drive itself.

- The data may be lost when an external impact is applied to the disk while disassembling or assembling the computer.
- The data may be lost when the computer is turned off or reset by a power failure while the hard disk drive is operating.
- The data may be lost and irrecoverable due to a computer virus infection.
- The data may be lost if the power is turned off while running a program.
- Moving or causing an impact to the computer while the hard disk drive is operating, may cause files to be corrupted or bad sectors on the hard disk.

Proper Posture During Computer Use

Maintaining a proper posture during computer use is very important to prevent physical harm.

The following instructions are about maintaining a proper posture during computer use developed through human engineering. Please read and follow them carefully when using the computer.

Otherwise, the probability of (RSI: Repetitive Strain Injury) from repeated operations may increase and serious physical harm may be caused.



The instructions in this manual have been prepared so that they can be applied within the coverage of general users. If the user is not included in the coverage, the recommendation is to be applied according to the user's needs.

Since this is commonly applied to Samsung Computers, some figures may differ from actual ones.

Proper Posture

- Do not use the computer on your lap or close to your skin for a long time.

There is a danger of burns due to the high temperature of the computer.

- To use the computer while talking over the telephone, use the ear-microphone phone.

When using the computer while holding a phone over your shoulder and talking on the phone, your posture becomes bad.

- Keep frequently used work items within an easy working range (where you can reach them with your hands easily).

Eye Position

Keep a distance of at least 50cm between the LCD and your eyes.

- Adjust the height of the LCD screen so that its top height is equal to or lower than your eyes.
- Avoid setting the LCD excessively bright.
- Keep the LCD screen clean.
- When wearing glasses, clean them before using the computer.

Hand Position

- It is recommended to connect and use an external keyboard and mouse when using the computer for a long time.
- Do not hold the Stylus Pen with excessive force.
- Do not press the touch screen with excessive force.

Volume Control (Headphones and Speakers)

Check your volume first to listen to music.



- Check if the volume is too loud before using headphones.
- Do not turn the volume to the maximum level right from the start. Instead, start the volume at a low level and increase it slowly while listening to the sound.
- It is not recommended using headphones for long periods of time.

Use Time (Break Time)

- Take a break for 10 minutes or more after a 50-minute period when working for more than one hour.

Illumination

- Do not use the computer in dark locations. The illumination level for computer use must be as bright so for reading a book.
- Indirect illumination is recommended. Use a curtain to prevent reflection on the LCD screen.

Operation Condition

- Do not use the computer in hot and humid locations.
- Use the computer within the allowed temperature and humidity range specified in the User Guide.

Important Safety Information

Safety instructions

Your system is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that the safety instructions marked on the product and in the documentation are followed.



Always follow these instructions to help guard against personal injury and damage to your system.

Setting Up your System

- Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable work surface.
- The product should be operated only with the type of power source indicated on the rating label.
- Ensure that the electrical outlet you are using to power your equipment is easily accessible in case of a fire or short circuit.
- If your computer has a voltage selector switch, make sure that the switch is in the proper position for your area.
- Openings in the computer case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space, at least 6 inches (15 cm), around the system for ventilation when you set up your work area. Never insert objects of any kind into the computer ventilation openings.
- Ensure that the fan vents on the bottom of the casing are clear at all times. Do not place the computer on a soft surface, doing so will block the bottom vents.
- If you use an extension cord with this system, make sure that the total power rating on the products plugged into the extension cord does not exceed the extension cord power rating.

Care During Use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the system. The best way to avoid spills is to not eat or drink near your system.
- Some products have a replaceable CMOS battery on the system board. There is a danger of explosion if the CMOS battery is replaced incorrectly. Replace the battery with the same or equivalent type recommended by the manufacturer. Dispose of batteries according to the manufacturers instructions. If the CMOS battery requires replacement insure that a qualified technician performs the task.
- When the computer is turned off, a small amount of electrical current still flows through the computer. To avoid electrical shock, always unplug all power cables, remove the battery and modem cables from the wall outlets before cleaning the system.
- Unplug the system from the wall outlet and refer servicing to qualified personnel if:
 - The power cord or plug is damaged.
 - Liquid has been spilled into the system.
 - The system does not operate properly when the operating instructions are followed.
 - The system was dropped or the casing is damaged.
 - The system performance changes.

The Instruction On Safety Operation of NotePC

- 1 When installing and operating devices please refer to safety requirements in the user guide.
- 2 Devices can be used only with the equipment specified in the technical specifications of the devices.
- 3 If any smell of burning or smoke from the computer the unit should be switched off and battery removed. The unit should be checked by a qualified technician before reuse.
- 4 Service and repair of devices should be carried out by authorized service centers.

Replacement Parts and Accessories

Use only replacement parts and accessories recommended by SAMSUNG.



Do not use this product in areas classified as hazardous. Such areas include patient care areas of medical and dental facilities, oxygen rich environments, or industrial areas.

Connect and Disconnect the AC adapter

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Do not unplug the power cord out by pulling the cable only.

Battery Disposal



Do not put rechargeable batteries or products powered by non-removable rechargeable batteries in the garbage.

Contact the Samsung Helpline for information on how to dispose of batteries that you cannot use or recharge any longer.

Follow all local regulations when disposing of old batteries.

Power Cord Requirements

The power cord set (wall plug, cable and AC adapter plug) you received with your computer meets the requirements for use in the country where you purchased your equipment.

Power cord sets for use in other countries must meet the requirements of the country where you use the computer. For more information on power cord set requirements, contact your authorized dealer, reseller, or service provider.



THERE IS A RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

General Requirements

The requirements listed below are applicable to all countries:

- The length of the power cord set must be at least 6.00 feet (1.8m) and a maximum of 9.75 feet (3.0m).
- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be used.
- The power cord set must have a minimum current capacity of 7 A and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system.
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C7 connector, for matching with appliance inlet on the computer.

Wireless Guidance

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz Band, may be present (embedded) in your notebook system. The following section is a general overview of considerations while operating a wireless device.

Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in your system are only qualified for use in the countries identified by the Radio Approval Marks on the system rating label. If the country you will be using the wireless device in, is not listed, please contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

The RF field strength of the wireless device or devices that may be embedded in your notebook are well below all international RF exposure limits as known at this time. Because the wireless devices (which may be embedded into your notebook) emit less energy than is allowed in radio frequency safety standards and recommendations, manufacturer believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

This transmitter must not be collocated or operate in conjunction with any other antenna or transmitter except the installed Bluetooth transmitter.

Some circumstances require restrictions on wireless devices. Examples of common restrictions are listed below:



- Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane.
802.11B (also known as wireless Ethernet or Wifi) and Bluetooth communication devices are examples of devices that provide wireless communication.
- In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.
- Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.
- If your system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.
- Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Please contact manufacturer for service.
- Only use drivers approved for the country in which the device will be used. See the manufacturer System Restoration Kit, or contact manufacturer Technical Support for additional information.

United States of America

USA and Canada Safety Requirements and Notices

Do not touch or move the antenna while the unit is transmitting or receiving.

Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.

Do not operate the radio or attempt to transmit data unless the antenna is connected; if not, the radio may be damaged.

Use in specific environments:

The use of wireless devices in hazardous locations is limited by the constraints posed by the safety directors of such environments.

The use of wireless devices on airplanes is governed by the Federal Aviation Administration (FAA).

The use of wireless devices in hospitals is restricted to the limits set forth by each hospital.



Explosive Device Proximity Warning

Do not operate a portable transmitter (such as a wireless network device) near unshielded blasting caps or in an explosive environment unless the device has been modified to be qualified for such use.



Use On Aircraft Caution

Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.

Other Wireless Devices

Safety Notices for Other Devices in the Wireless Network: Refer to the documentation supplied with wireless Ethernet adapters or other devices in the wireless network.



The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency. Any changes or modification to this product not expressly approved by Intel could void the user's authority to operate this device.

Unintentional Emitter per FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference."

This is available at FCC local regional offices. Our company is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction will be the responsibility of the user. Use only shielded data cables with this system.

Intentional emitter per FCC Part 15

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz Band, may be present (embedded) in your notebook system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the United States of America if an FCC ID number is on the system label.

This transmitter must not be collocated or operate in conjunction with any other antenna or transmitter except the installed Bluetooth transmitter.

Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

FCC Part 68 **(If fitted with a modem device.)**

This equipment complies with part of the FCC rules. On the back of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following USOC jacks : RJ11C.

An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.

The REN is used to determine the quantity of devices which may be connected to telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by total RENs, contact the local telephone company

to determine the maximum REN for the calling area.

If the terminal equipment causes harm to the telephone network, the Telephone Company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advanced notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment (Modem) for repair or warranty information, please contact your local distributor. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

The user must use the accessories and cables supplied by the manufacturer to get optimum performance from the product.

No repairs may be done by the customer.

This equipment cannot be used on public coin phone service provided by the telephone company. Connection to party line service is subject to state tariffs.


The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be any number for which charges exceed local or long-distance transmission charges.)

In order to program this information into your fax machine, refer to your communications software user manual.

European Union

European Union CE Marking and Compliance Notices

Products intended for sale within the European Union are marked with the Conformité Européene (CE) Marking, which indicates compliance with the applicable Directives and European standards and amendments identified below. This equipment also carries the Class 2 identifier.

The following information is only applicable to systems labeled with the CE mark .

European Directives


This Information Technology Equipment has been tested and found to comply with the following European directives:

- EMC Directive 89/336/EEC with amending directives 92/31/EEC & 93/68/EEC as per
 - EN 55022 Class B
 - EN 61000-3-2
 - EN 61000-3-3
 - EN 55024
- Low Voltage Directive (Safety) 73/23/EEC as per EN 60950-1:2001+A11
- Radio and Telecom Terminal Equipment Directive 199/5/EC as per
 - CTR21 (if fitted with a modem device)

- ETS 300 328 (if fitted with a 2.4 GHz band embedded wireless device)
- ETS 301 489-1 (if fitted with a 2.4 GHz band embedded wireless device)
- ETS 301 489-17 (if fitted with a 2.4 GHz band embedded wireless device)

European Radio Approval Information (for products fitted with EU-approved radio devices)

This Product is a Notebook computer; low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz band, may be present (embedded) in your notebook system which is intended for home or office use. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the European Union or associated areas if a CE  mark with a Notified Body Registration Number and the Alert Symbol is on the system label.

The power output of the wireless device or devices that may be embedded in you notebook is well below the RF exposure limits as set by the European Commission through the R&TTE directive.



See 802.11b and 802.11g restrictions for specific countries or regions within countries under the heading “European Economic Area Restrictions” below.

Translated Statements of Compliance

[English]

This product follows the provisions of the European Directive 1999/5/EC.

[Danish]

Dette produkt er i overensstemmelse med det europæiske direktiv 1999/5/EC

[Dutch]

Dit product is in navolging van de bepalingen van Europees Directief 1999/5/EC.

[Finnish]

Tämä tuote noudattaa EU-direktiivin 1999/5/EC määräyksiä.

[French]

Ce produit est conforme aux exigences de la Directive Européenne 1999/5/EC.

[German]

Dieses Produkt entspricht den Bestimmungen der Europäischen Richtlinie 1999/5/EC

[Greek]

Το προϊόν αυτό πληροί τις προβλέψεις της Ευρωπαϊκής Οδηγίας 1999/5/EC.

[Icelandic]

Þessi vara stenst reglugerð Evrópska Efnahags Bandalagsins númer 1999/5/EC

[Italian]

Questo prodotto è conforme alla Direttiva Europea 1999/5/EC.

[Norwegian]

Dette produktet er i henhold til bestemmelsene i det europeiske direktivet 1999/5/EC.

[Portuguese]

Este produto cumpre com as normas da Diretiva Européia 1999/5/EC.

[Spanish]

Este producto cumple con las normas del Directivo Europeo 1999/5/EC.

[Swedish]

Denna produkt har tillverkats i enlighet med EG-direktiv 1999/5/EC.

European Economic Area Restrictions

Local Restriction of 802.11b/802.11g Radio Usage

[Note to integrator: The following statements on local restrictions must be published in all end-user documentation provided with the system or product incorporating the Wireless Network product.



Due to the fact that the frequencies used by 802.11b/802.11g wireless LAN devices may not yet be harmonized in all countries, 802.11b/802.11g products are designed for use only in specific countries or regions, and are not allowed to be operated in countries or regions other than those of designated use.

As a user of these products, you are responsible for ensuring that the products are used only in the countries or regions for which they were intended and for verifying that they are configured with the correct selection of frequency and channel for the country or region of use. Any deviation from permissible settings and restrictions in the country or region of use could be an infringement of local law and may be punished as such.

The European variant is intended for use throughout the European Economic Area. However, authorization for use is further restricted in particular countries or regions within countries, as follows:

General

European standards dictate maximum radiated transmit power of 100 mW effective isotropic radiated power (EIRP) and the frequency range 2400 – 2483.5 MHz.

Belgium

The product may be used outdoors, but for outdoor transmissions over a distance of 300m or more, a license from the BIPT is required.

This restriction should be indicated in the manual as follows:

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France

For Metropolitan departments:

2.400 - 2.4835 GHz for indoor use.

2.400 - 2.454 GHz (channels 1 to 7) for outdoor use.

For Guadeloupe, Martinique, St Pierre et Miquelon, Mayotte:


2.400 - 2.4835 GHz for indoor and outdoor use.

For Reunion, Guyane:

2.400 - 2.4835 GHz for indoor use.

2.420 - 2.4835 GHz for outdoor use (channels 5 to 13)

European Telecommunication Information (for products fitted with EU-approved modems)

Marking by the symbol  indicates compliance of this equipment to the Radio and Telecom Terminal Equipment Directive 1999/5/EC. Such

marking is indicative that this equipment meets or exceeds the following technical standards:

CTR 21 – Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE (excluding TE supporting voice telephony services) in which network addressing, if provided, is by means of Dual Tone Multi-Frequency (DTMF) signaling.



Although this equipment can use either loop disconnect (pulse) or DTMF (tone) signaling, only the performance of the DTMF signaling is subject to regulatory requirements for correct operation.

It is therefore strongly recommended that the equipment is set to use DTMF signaling for access to public or private emergency services. DTMF signaling also provides faster call setup.

This equipment has been approved to Council Decision 98/482/EEC-“CTR 21” for Pan-European single terminal connection to the Public Switched Telephone Network (PSTN).

However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN termination point. In the event of problems, you should contact manufacturer Technical Support.

WEEE SYMBOL INFORMATION



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

USA ONLY

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.

“Perchlorate Material- special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate.”



LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.

For details see lamprecycle.org, eise.org, or call 1-800-Samsung.

Overview



- *The items marked with this symbol are optional items which may be changed or may not be provided depending on the computer model.
- The actual color and appearance of the computer may differ from the pictures used in this guide.
- The shapes and characters of buttons may differ from actual ones.

Front View

Status Indicators

Shows the computer operating status. [?] p.35

LCD

Displays the computer screen.

Touch Sensor Buttons *

You can configure functions by lightly touching it with your finger. [?] p.36

Keypad

Using the Keypad, users can enter letters or numbers directly.

! Avoid dropping water on the keypad.

Camera *

Using the front side camera, you can take pictures or record video. [?] p.138

Keypad

Speaker

User-Defined Button

You can configure this button to launch a frequently used program.

Speaker

Generates sound from the computer.

Mouse/Joystick

You can use it as a mouse, joystick and a button to display the Dialkeys. [?] p.56

Enter Button

Press this button to run a selection. It performs the role of the Enter key on the keyboard.

Fingerprint sensor *

Using this sensor, you can use the fingerprint identification function. You can use it to identify whether a fingerprint is registered by placing a finger over it. [?] p.141

Microphone *

The microphone is used to make a sound recording.

! A built-in microphone is provided for some models.

Mouse Button

This performs the role of the left and right buttons of the mouse when the Mouse/Joystick is used as a mouse.

- **L Button:** A single press performs the role of a click and double pressing performs the role of a double-click.
- **R Button:** A single press performs the role of a right-click.



Status Indicators

Joystick
Press the **MOUSE** button above **Mouse/Joystick**.
If the Joystick icon is lit, you can use it as a joystick when playing a game.


Mouse
Press the **MOUSE** button above **Mouse/Joystick**.
If the Mouse icon is lit, you can use it as a mouse.

HDD
This is lit when the hard disk drive is accessed.

Wireless LAN
This is lit for models with wireless LAN capability when the Wireless LAN function is in operation.

Power
This shows the computer's operating status.
On: When the computer is turned on.
Blink: When the computer is in Sleep mode.
To wake the computer up from Sleep mode, slide the **Power Switch** downwards.

Charge
This shows the AC adapter and battery status.
Green: When the battery is completely charged or is not installed.
Amber: When the battery is being charged.
Blink: When the **HOLD** switch is lifted up or a button is pressed in the **HOLD** (Lock) status.
Off: When the computer is running on battery power without an AC power supply.



Touch Sensor Buttons

You can run a function by lightly touching a Touch Sensor Button with your finger.

The Touch Sensor Buttons are optional and may not be provided depending on your computer model.



UDF

If you touch this button, the Easy Button Manager appears in which you can configure the User-Defined Button function.

MENU

If you touch this button, the MENU program will be launched.

The menu program provides a menu with the computer's frequently used functions. You can conveniently configure the functions.

VOL-, VOL+

You can adjust the volume.

Precautions for using the Touch Sensor Buttons

- The Touch Sensor Buttons only work when the computer is turned on.
- If you touch the Touch Sensor Buttons when the computer is locked, the lock icon will appear and the buttons will not work.
- Please ensure your hands are clean and dry when using the Touch Sensor Buttons.
In a humid environment, remove any moisture from your hands and the Touch Sensor Button surface before use.
- Since the Touch Sensor Buttons are sensitive, do not press them using excessive force.
Take care as excessive force may damage the sensor of the Touch Sensor Buttons.
- Do not press the buttons with a sharp object such as a Stylus Pen or ballpoint pen, as this may damage them.
- When you need to press a Touch Sensor Button, press the relevant Touch Sensor Button precisely using your finger taking care not to touch another Touch Sensor Button.
- The Touch Sensor Buttons may not work properly when you are wearing gloves or if the buttons are covered by plastic packaging or a protection panel.
- A Touch Sensor Button may malfunction when the Touch Sensor Button surface is touched by a conductive material such as a metal object.

Top View




Multi-Card Slot *

You can connect SD or MMC cards using this slot.

Shutter *

(Only for the camera model)

You can take pictures using the camera shutter.  p.138

Internet Button *

(Only for some models that camera is not applied.)

Launch Internet.

MENU Button *

(For models without a Camera and Touch Sensor buttons)

Launches the MENU program.

Headphone Jack

You can connect headphones using this jack.

Vents

Emits heat generated inside the computer.

USB Port

You can connect USB devices such as a USB keyboard/mouse, USB ODD (Optical Disk Drive), etc. using this port.



Avoid blocking the vents as this may overheat the computer.

Right View

Windows Security Button

Pressing this button is the same as pressing the <Ctrl>+<Alt>+ keys on the keyboard.
Press with the Stylus Pen.

Power IN Jack

The AC adapter which supplies power for the computer is connected here.

LAN Port

You can connect a LAN cable using this port.

USB Port

You can connect USB devices such as a USB keyboard/mouse, USB ODD, etc. using this port.

Monitor Port

You can connect a monitor, TV or projector supporting a 15pin D-SUB interface using this port.

☞ p.64

Stylus Pen / Stylus Slot

Using this pen, you can enter information on the touch screen.
You can keep the Stylus Pen in the Stylus Slot.



Open the cover.



Left View



Hand Strap Hole

You can attach a hand strap using this hole.




AV Button

Press this button to launch AVStation Now.  p.136

Power Switch / HOLD Switch

① Power Switch Function


Slide the **switch** downwards to turn the computer on.

 If you slide the switch downwards again, the computer enters Sleep mode and the Power LED blinks.

② HOLD Switch (Lock) Function

If you slide the **switch** upwards to the end (HOLD position), the Lock icon appears and the computer is Locked and you will not be able to use any function.

Slide the **switch** to the mid position to release the lock. Then you can use the computer normally.

 If you slide the **switch** down to the end and hold it for 1 to 2 seconds when the computer is in the HOLD state, the computer will enter Hibernation mode.

To cancel Sleep mode, slide the **switch** downward to the end.

Back View

Vents

Emits heat generated inside the computer.

! Avoid blocking the vents as this may overheat the computer.

Camera *

Using the camera at the back, you can take pictures or record video.

Stand

Using the stand, you can use the screen at a comfortable angle.

Hand Strap Hole

Battery

A lithium-Ion rechargeable battery that supplies power for the computer. ㉞ p.157

Battery Latch

The battery latch is used to separate or fix the battery. ㉞ p.157

Hand Strap Hole

Connecting this hole and the hole of left side with hand strap allow you to fix hand.



Turning the Computer On and Off

Turning the computer on

1 Install the **battery** and connect the **AC adapter**.
(Refer to the **Getting Started Guide**.)

2 Adjust the **stand** at the back of the computer to a comfortable angle.

3 Slide the **Power Switch** downwards.

The computer is turned on.



- If you slide the **Power Switch** downwards when the computer is on, the computer enters Sleep mode.



In Sleep mode, the Power LED blinks. If you slide the power switch downwards again, the computer wakes up from Sleep mode.

If you have changed the power options of the **Power button** to **Shutdown** in the Control Panel, sliding the power switch downwards will shutdown the computer.



☞ p.88

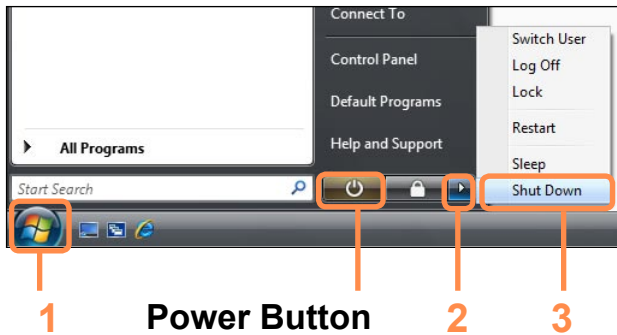
- When running the computer on battery power, the LCD brightness is dimmed automatically to save battery power.

For the models with Touch Sensor buttons, press the **MENU** button and then press the ,  buttons for the **Brightness** to adjust the LCD brightness. ☞ p.54

For models without Touch Sensor buttons, press the **User Defined buttons** (, ) while holding down the **DIAL KEY** to adjust the LCD brightness.

Turning the computer off

- 1 Click the **Start** () button on the taskbar.
- 2 Click the () and click on **Shut down**. The computer will shut down.



Before Using the Power Button

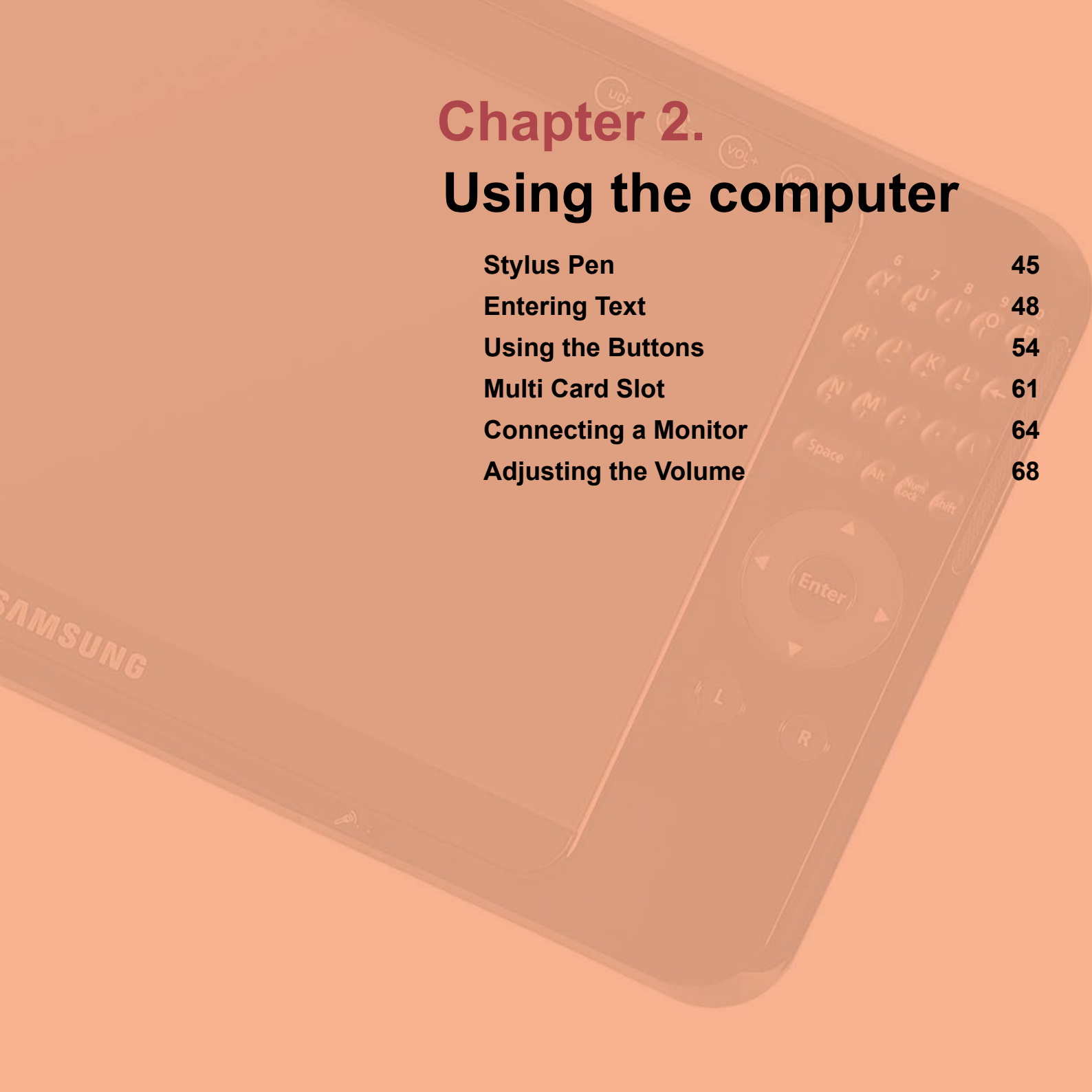
Since the Power Icon is set to power saving mode, selecting **Start > Power Button** () will cause the computer to enter **Sleep mode**.

To shut down the computer by clicking this icon, refer to the descriptions for Setting up Start menu power button of the Control Panel. [p.88](#)



If the computer does not shutdown due to a system error, slide the power switch down and hold it for more than 4 seconds to forcefully turn it off.

When turning the computer on again after it was turned off by sliding the power switch down and holding it, the system examination program may run.



Chapter 2.

Using the computer

Stylus Pen	45
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Multi Card Slot	61
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Adjusting the Volume	68

Stylus Pen

A Stylus Pen is used instead of a mouse and provides the same function.



It is recommended to connect and use a USB keyboard and mouse when using the computer for a long time.


Taking the Stylus Pen Out

Take the Stylus Pen out to the right.

When finishing using the pen, return it to the Stylus Slot.








Learning Tablet PC Operations

Click **Start > All Programs > Tablet PC** to learn how to operate a Tablet PC using a Stylus Pen.  p.73



Operate the touch screen LCD with a **Stylus Pen** or your **finger**. Sharp objects may scratch or damage the LCD surface.

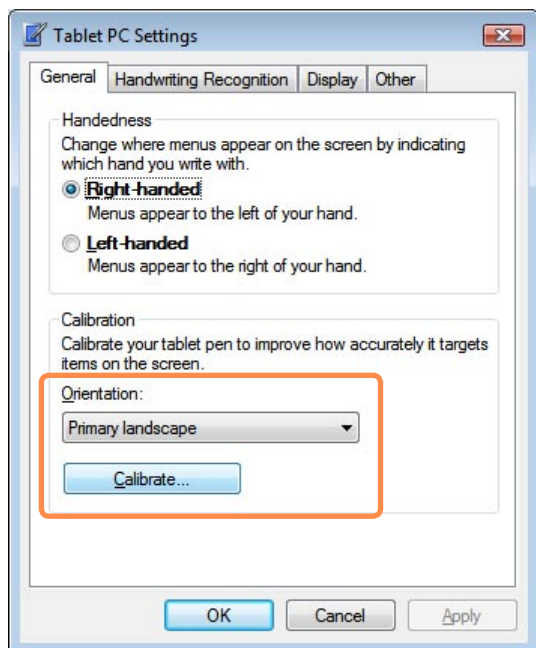
Stylus Pen Functions

Mouse	Using the Stylus Pen	Function
Single-click	Single-tap 	Single-tap with the pen to select an item.
Double-click	Double-tap 	Double-tap with the pen to run an item.
Right-click	Press and Hold   Screen Mouse	<ul style="list-style-type: none">● Method 1. If you press and hold the pen over a point of the screen, a circle is drawn around the pointer. If you remove the pen when the circle is completely drawn, the pop-up menu appears.● Method 2. In addition, if you press on the screen with the Pen, the Screen Mouse appears for a moment. If you click the right button of the Screen Mouse, it performs the role of the right button of an external-type mouse.
Drag	Drag 	Tap an item and drag it with the pen to move the item.

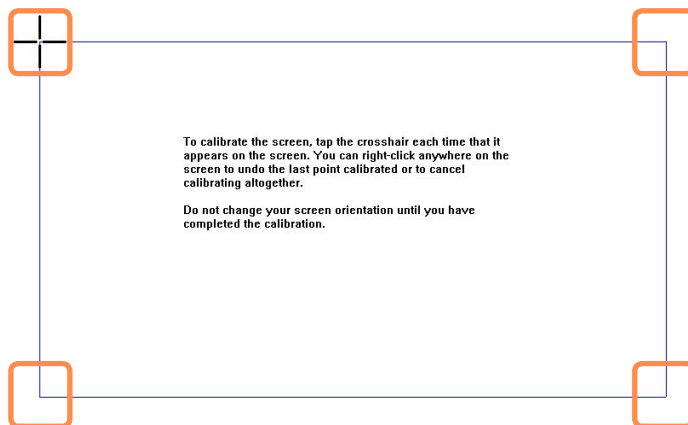
Calibrating the Screen

When using the computer for the first time or you are experiencing some difficulty in pointing the pointer on the screen using your finger or pen, calibrating the screen is recommended.

- 1 Tap **Start > Control Panel > Hardware and Sound > Tablet PC Settings**.
- 2 In the **Calibration** Area of the **General** tab, select a screen direction and click **Calibrate...**.



- 3 Tap the **Crosshair (+)** displayed on the screen with the Stylus Pen whenever it appears on the screen.



To cancel a calibration, press the stylus pen against the screen and hold it for more than 3 seconds. A pop-up menu will appear. Select **Cancel** from the pop-up menu.

- 4 If you have pressed all the Crosshairs, the Digitizer Calibration Tools window appears. Tap the **OK** button to apply the calibration result for the pointing position correction.

Entering Text

You can enter characters using the Keypad, Tablet PC Input Panel, or Dialkeys.



- For long periods of use, use the keypad or a USB keyboard for your convenience.
- For example, the procedures to enter text in the Notepad will be described below.

Using the Keypad

Using the keypad you can enter characters and numbers directly.

The Keypad image may differ from the actual Keypad.

Character/Numeric Key

You can directly enter characters/numbers to the screen by pressing this key.

Shift

To switch between capital and small letters, press the key while holding the Shift key down.

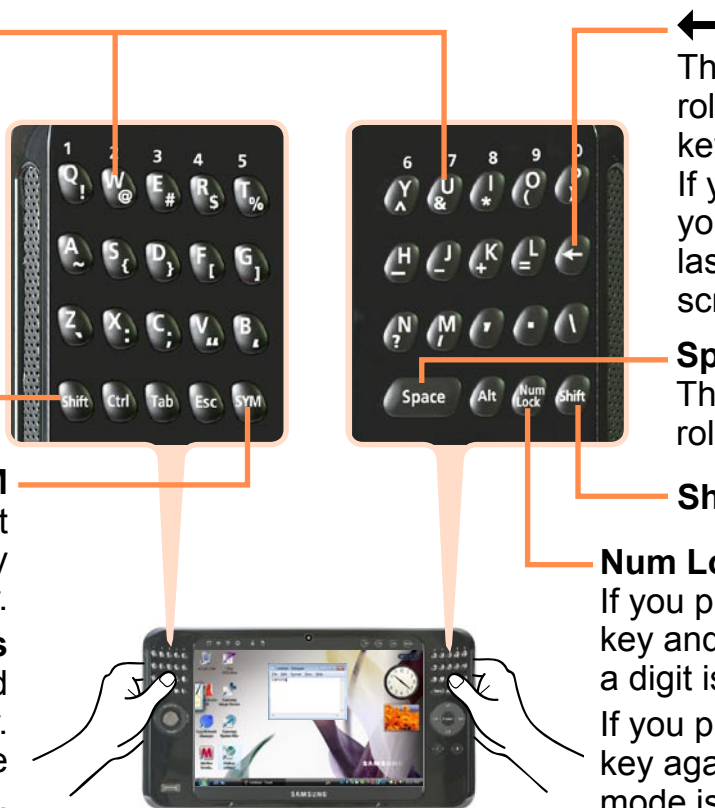
SYM

You can enter special key it is below the Character key by pressing this key.

Entering special keys

Press the **SYM** key once and press the corresponding key. The special key below the corresponding key is entered.

To enter special keys successively, repeat the above operation.



This key performs the role of the Backspace key on a keyboard. If you press this key, you can erase the last characters on the screen.

Space

This key performs the role of the space key.

Shift

Num Lock



If you press the Num Lock key and then a first line key, a digit is entered.

If you press the Num Lock key again, the numeric key mode is canceled and you can enter characters.

Using the Tablet PC Input Panel

The **Tablet PC Input Panel** is an on-screen letter input pad provided by Windows. Using it, you can enter letters with the Stylus Pen.

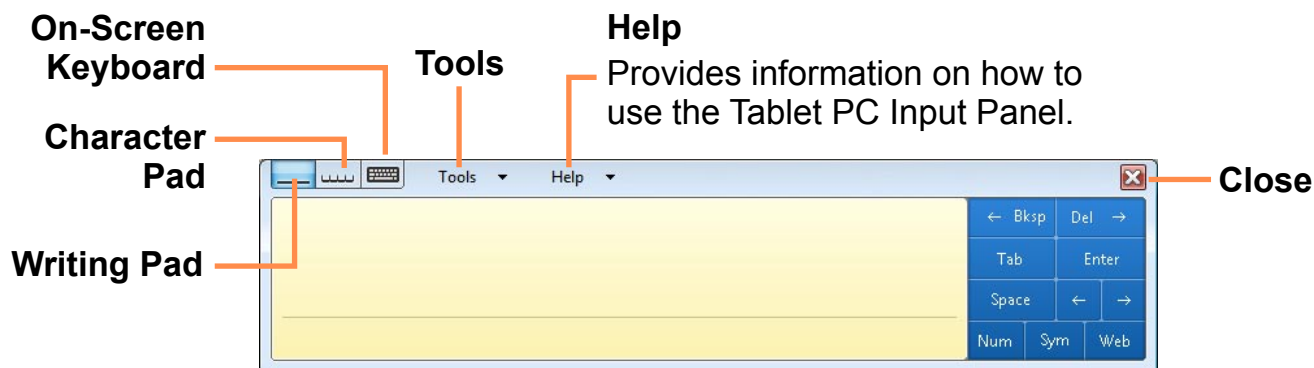
You can enter letters using the **Tablet PC Input Panel** in 3 ways.

- 1 Tap **Start > All Programs > Accessories > Notepad**. Notepad is launched.
- 2 If you tap over the Notepad with the Stylus Pen, <  > appears with the cursor.
- 3 If you tap <  > with the Stylus Pen, the Tablet PC Input Panel appears.




This function may not be supported depending on the languages.

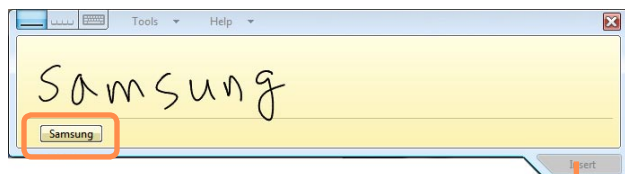
Alternatively, press the **Tablet PC Input Panel** hidden at the left end of the Desktop to display the Tablet PC Input Panel.



Entering text using the Writing Pad

You can enter characters by writing characters on the Stylus Pen Writing Pad directly.

- 1 In the **Tablet PC Input Panel**, tap the **Writing Pad** icon ().
- 2 Write text in the input area of the Writing Pad with the Stylus Pen and wait a moment. The written letters are converted into the corresponding computer characters.




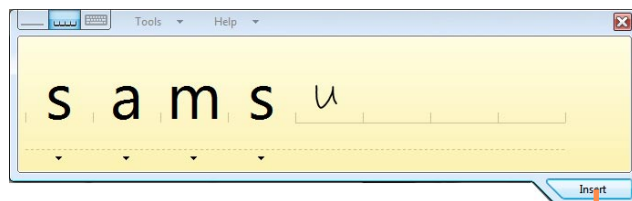
Insert

- 3 Tap the **Insert** button to enter the converted letters.

Entering text using the Character Pad

You can write a letter in each cell of the Character Pad with the Stylus Pen.

- 1 In the **Tablet PC Input Panel**, tap the **Character Pad** icon ().
- 2 Write a letter in the cell of the Character Pad with the Stylus Pen and wait a moment. The written letter is converted into the corresponding computer character.




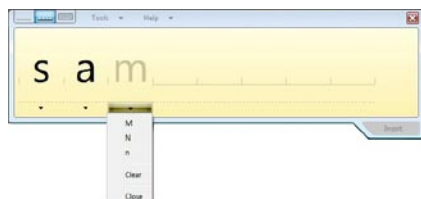
Insert

Tap the **Insert** button to enter a converted letter.

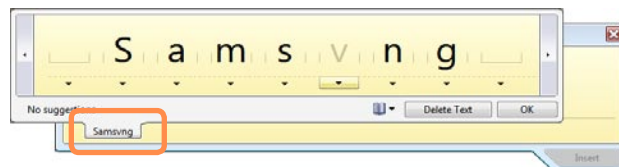


Modifying Text

To modify a wrong character, write over the character or tap  below the character and select another character.




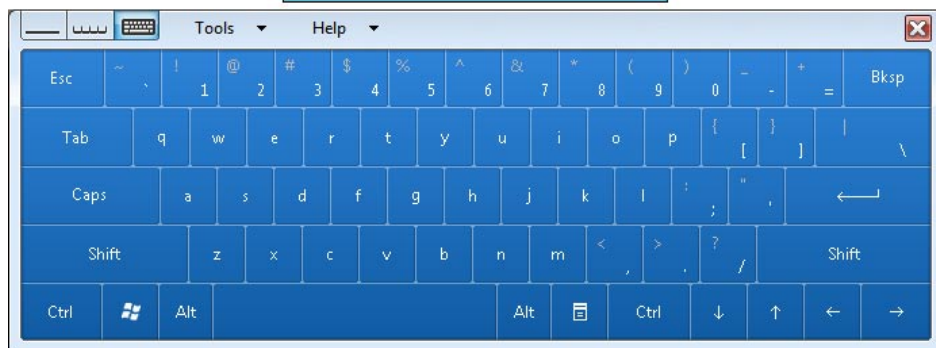
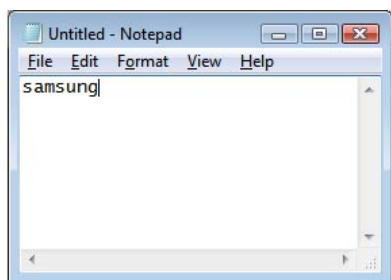
In the Writing Pad, you can replace a word with another or modify a character by clicking on it.



Entering text using the On-Screen Keyboard

The On-Screen Keyboard displays a standard keyboard on the screen so that you can enter a letter by pressing the corresponding key on the screen.

- 1 In the **Tablet PC Input Panel**, tap the **On-Screen Keyboard** icon ().
- 2 Tap a character key with the Stylus Pen to enter the character.



Dialkeys

DialKeys is an on-screen keyboard designed to be used with compact touch screen computers. You can enter letters using the **DialKeys** by pressing a key on the screen with your thumbs while holding both of the lower corners of the computer with your hands.

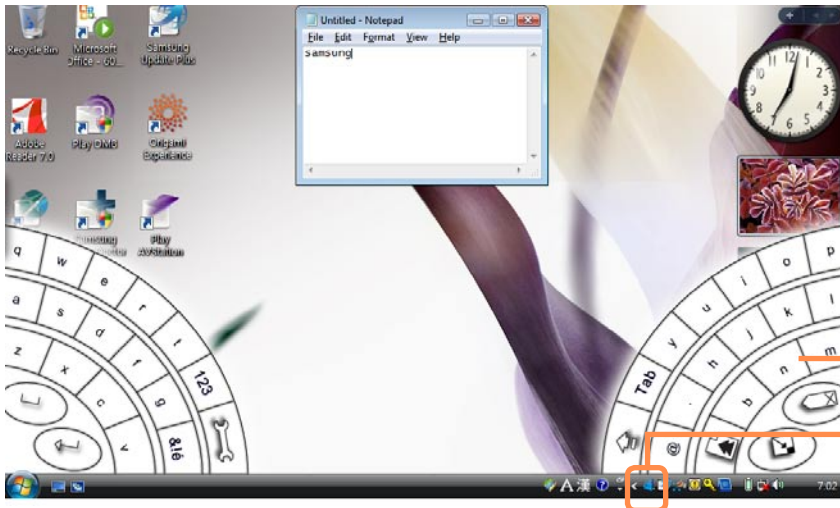
► Execution Method 1.

If you press the **DIAL KEY** part below the **Mouse/Joystick**, the **Dialkeys** appear. If you press it again, the Dialkeys disappear.

► Execution Method 2.

Select **Start > All Programs > Microsoft Origami Experience Pack > DialKeys**. The **Dialkeys** appear at both ends of the lower screen. Enter characters using your thumbs. If they disappear, press the **Dialkeys** icon (📱) from the Taskbar referring to the following note.

DIAL KEY



* The Dialkeys appearance and color may differ from actual ones.

Dialkeys

Dialkeys icon



Hiding Dialkeys

Whenever you tap the **Dialkeys icon** (📱) in the Taskbar, the **Dialkeys** appear and then disappear.

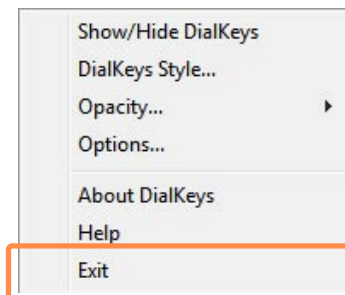
To hide, tap the **Dialkeys icon** (📱) on the Taskbar.

Alternatively, you can show or hide the **Dialkeys** by pressing the **DIAL KEY** part below the **Mouse/Joystick**.



Exiting Dialkeys

Press and hold the **Dialkeys icon** () in the Taskbar, press the **Exit** from the pop-up menu.



Corresponds to the Enter key on a keyboard.



Corresponds to the space bar on a keyboard.



The Dialkey key is minimized and moved into the notification area of the Taskbar. To restore it to its original size, click the minimized Dialkey.





Corresponds to the Backspace on a keyboard.





Moves the current window up.



Entering a Number

If you tap the **123** () key shown in the figure on the left pane of Dialkeys, the **123** () key turns blue and you can enter a number. After you enter a number, it returns to text input mode.

If you tap the **123** () twice, it turns red and you can enter multiple numbers continuously. When you have finished entering numbers, tap the **123** () once again to cancel number input mode.

Using the Buttons

The functions of the MENU button, User-Defined button, Mouse/Joystick, and mouse buttons are described below.

The MENU Button

When the **MENU** button is pressed, the **MENU program** appears.



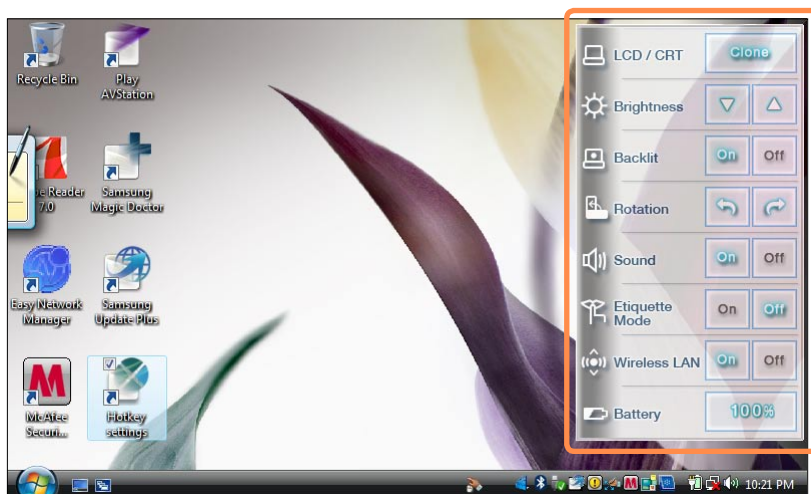
MENU button
(For models with the
Touch Sensor button only)









MENU button
(For models without the
Touch Sensor button only)

The MENU Program provides shortcuts to frequently used functions on the computer. You can easily change the settings.

Press the MENU button again or press a point on the screen to hide the MENU Program.



MENU Program

MENU Items	Function
LCD / CRT	<p>You can select the display device when an external monitor is connected. Whenever you press the button to the right of the LCD/CRT button, the computer screen is output to LCD > CRT > LCD+CRT Clone > LCD+CRT Dual View mode, in this sequence.</p> <div data-bbox="432 352 1513 536">  <p>Displaying the computer screen on an external monitor only, may not be supported with the MENU button. In this case, to display the screen on an external monitor, try using the Intel program.  p.66</p> </div>
Brightness  / 	<p>Whenever this item is pressed, the LCD brightness is increased(decreased) by one step.</p>
Backlit On / Off	<p>If you press Off, the LCD screen is turned off. To turn it on again, press down on the LCD screen once.</p>
Rotation	<p>Whenever you press this button, the screen rotates clockwise or counterclockwise by 90 degrees.</p> <div data-bbox="432 858 1513 970">  <p>When rotating the screen, a part of the screen image may not be displayed in some software programs.</p> </div>
Sound On / Off	<p>Press this item to turn the volume on or off.</p>
Etiquette Mode On / Off	<p>Turns Etiquette mode on or off. Use Etiquette mode when you need a quiet working environment.</p> <div data-bbox="432 1166 1513 1310">  <p>Since Etiquette Mode makes the CPU run at its slowest, the program operating speed may slow down and the computer may overheat due to the slow fan speed.</p> </div>
Wireless LAN On / Off	<p>Press this item to turn the Wireless LAN on or off.</p>
Battery	<p>Shows the remaining battery charge.</p>

Mouse/Joystick

The Mouse/Joystick has the functions of a mouse, joystick and Dialkeys.

Mouse Function

Press the **MOUSE** part at the top of the **Mouse/Joystick**. If the **Mouse** (🖱️) icon is lit, you can use the **Mouse/Joystick** as a mouse.



► Moving the Cursor

Place your left hand thumb on the Mouse/Joystick, and move it in the direction you want to move the cursor.

► Click / Double-Click

When the **Mouse** (🖱️) icon is lit, press the **L button** (L) once for the click (select) operation and press the button twice for the double-click operation.

► Right-Click

When the **Mouse** (🖱️) icon is lit, press the **R button** (R) once for the right-click operation.

Joystick Function

Press the **MOUSE** button above the **Mouse/Joystick**.

If the **Joystick** (🖱️) icon is lit, you can use the **Mouse/Joystick** as a joystick.

MOUSE



Dialkeys Function

If you press the **DIAL KEY** button below the **Mouse/Joystick**, the **Dialkeys** appear on the screen.

You can enter characters using your thumbs via the **Dialkeys**.

If you press the **DIAL KEY** again, the Dialkeys disappear.
For more information on using the Dialkeys, refer to [F5] p.52

DIAL KEY



Dialkeys

User-Defined Button

A **User-Defined Button** refers to a button which can be configured so that pressing it launches a frequently used program or plays the role of pressing a particular key combination.

It is convenient to set your frequently-used programs or key combinations as groups.



User-Defined Button



The button shapes and program screens may differ from actual ones.

Default Group Setting

The Internet, Explorer and Presentation are provided as a basic group and the Internet group is set by default when purchasing the computer. However, you cannot change the settings for the basic group.

Internet Group Setting Status


Button	Function	Description
▲	MouseScrollUP	Scrolls up in a window as a mouse scroll.
▶	Forward	Moves forward in Internet or Windows Explorer to display the next page.
▼	MouseScrollDown	Scrolls down in a window as with a mouse scroll.
◀	Back	Moves back in Internet or Windows Explorer to display the previous page.

Configuring Additional Groups

Below are procedures to add an additional group to the default group and for setting up functions for the four buttons.

As an example, the procedures to add a new group named “Test”, configure the ▲ button to a particular key combination, and configure the ► button to a program are described below.

1 Double-click the **Easy Button Manager** icon () on the Desktop.


Alternatively, press the **UDF** () Touch Sensor button if there are Touch Sensor buttons.

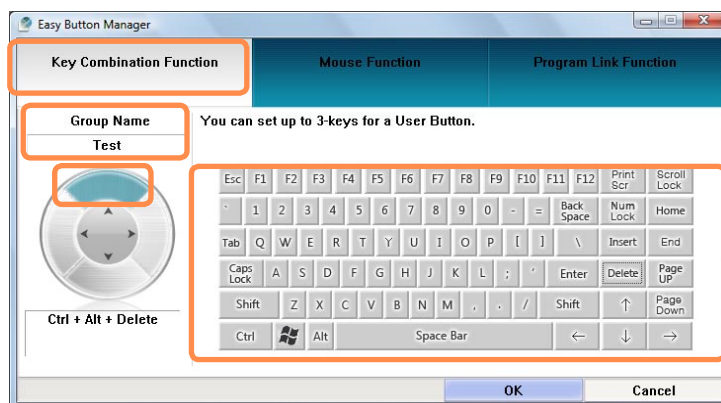
2 In the Main screen, click **Add**.

3 Enter a name in the **Group Name** field of the **Tablet PC Input Panel**.

For example, enter “**Test**”.



For information on how to use the Tablet PC Input Panel, refer to the descriptions for Entering Text.  p.49



4 After selecting the ▲ button, select the **Key Combination Function**.

Key Combination Function: You can set a User Button to a particular key combination.

Mouse Function: You can set a User Button to a mouse operation.

Program Link Function: You can set a User Button to launch a frequently used program.

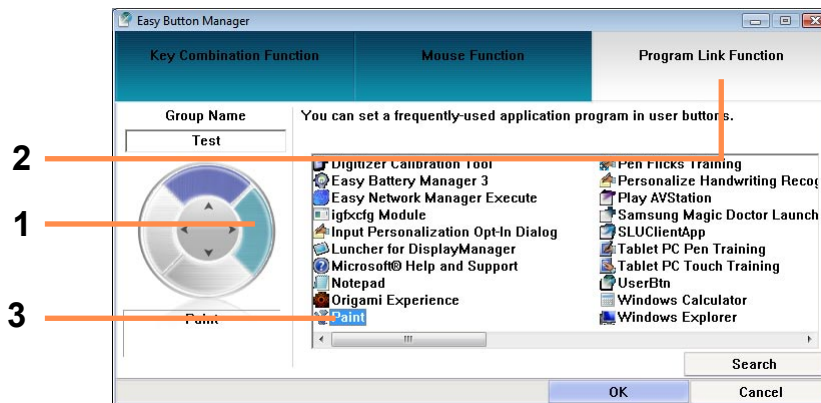
5 Press a required key combination.

For example, if you have pressed the **Ctrl, Alt, Delete** key in order, “**Ctrl + Alt + Delete**” is displayed on the left side of the screen.

6 To continue with setting up the ► button, select the ► button and click the **Program Link Function**.

Select the program you want and click the **OK** button.

If the program you want is not in the list, click the **Search** button and select a program.



7 You can view the settings for each button in the Main screen.

Select a group from the Group Name and click the **OK** button. The user buttons perform the roles set in the selected group.



■ **To use the functions of the added group or another group**

Launch Easy Button Manager, select a group from the **Group Name** of the main screen and click **OK**.

■ **To delete or modify the group list**

Launch Easy Button Manager, select a group from the **Group Name** of the main screen and click **Delete** or **Modify**.

Multi Card Slot

You can use SD and MMC cards using the multi card slot.

You can use storage cards as removable disks and use them to conveniently exchange data with digital devices such as digital cameras, digital camcorders, MP3 players, etc.



- A multi card slot is optional and is provided for some models only.
- Users have to purchase storage cards according to their needs.
- While the multi card slot enables users to use memory cards as data storage, it does not support a copyright protection function.
- Remove and keep the cards in a separate location when carrying the computer as they may become lost while moving.

Supported Card Types



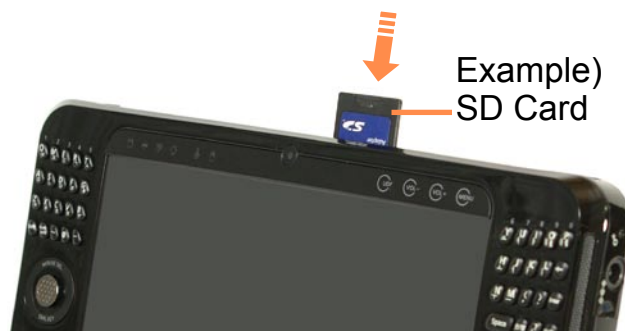
SD Card



MMC Card

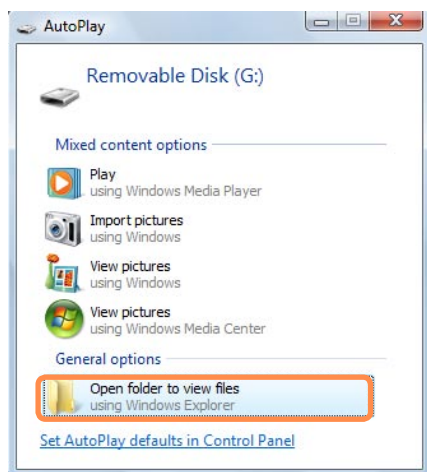
Using a Memory Card

- 1 Insert the memory card into the multi card slot according to the direction printed on the slot.



- 2** The card drive appears. Click **Open folder to view files**.

If the window does not appear, click **Start > Computer**.



You cannot use an unformatted card. If the card is not formatted, format the card first, referring to the 'Formattung a Card' section. p.63



To use a Mini SD or RS-MMC card

These cards cannot be inserted into the slot because they are too small.

You can use the cards by inserting the cards into the corresponding card adapter and then inserting the adapter into the multi card slot.



If a window appears asking if you want to scan and change, click the **Continue without scan** option. You can proceed to Step 2.

- 3** Double-click the corresponding drive to save, move or delete data.



Removing a Card

- 1** Push the end of the card slightly.
- 2** The card clicks and pops out. Remove the card from the slot.

Formatting a Card

You have to format a card before using it.



If you format a card, all the data saved on the card will be removed. Make sure to backup data before formatting a card if data has been saved to the card.

- 1 Select **Start > Computer**.
- 2 Right-click over the card drive and select **Format** from the pop-up menu.
- 3 If you click **Start**, formatting will begin.



To use a card to exchange data with a digital device such as a digital camera, formatting the card in the digital device is recommended.

Some digital devices may fail to recognize a card formatted on a computer. In this case, you have to format the card in the digital device.

Connecting a Monitor

Using an external monitor, you can watch a movie on wide screen or give a presentation. The procedures to view pictures on an external monitor are described below.



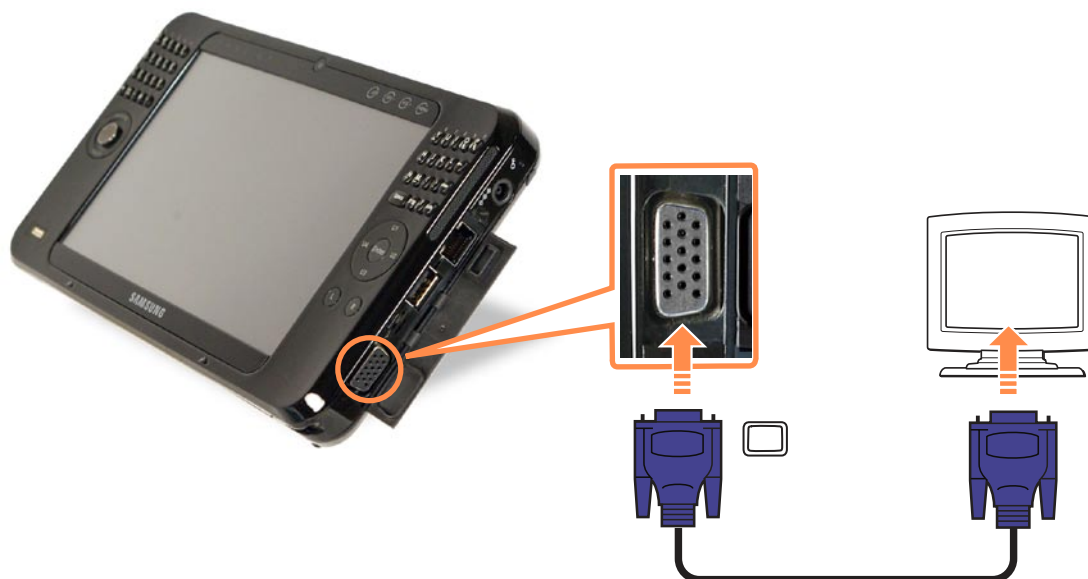
When using an **external monitor** or **playing a game**, using the **Mouse/Joystick** or an **external mouse** is convenient.

You have to purchase the monitor connection cable additionally.

The monitor port color may differ from the actual one.

Connecting a Monitor

Open the cover on the right side and connect a monitor to the **Monitor Port**.



Method 1. Configuring with the MENU Button

- 1 Connect the monitor and touch the **MENU** button to launch the MENU program.

MENU button (For models with the Touch Sensor button only)

MENU button
(For models without the Touch Sensor button only)



LCD/CRT Item

- 2 Press the button to the right of the LCD/CRT button to switch to a different mode. Whenever you press the button to the right of the LCD/CRT button, the computer screen is output to **LCD > CRT > LCD+CRT Clone > LCD+CRT Dual View** mode, in this sequence.

- **LCD**: You can view the computer screen through the LCD only.
- **CRT**: You can view the computer screen on an external monitor.
- **LCD+CRT Clone**: When selecting this mode, you can view the same screen on both the LCD and the external monitor.
- **LCD+CRT Dual View**: When selecting this mode, you can view a screen spanning over the LCD and the external monitor, and you can set different resolutions for each display device.




Displaying the computer screen on an external monitor only, may not be supported with the **MENU** button. In this case, to display the screen on an external monitor, try using the Intel program. [p.66]

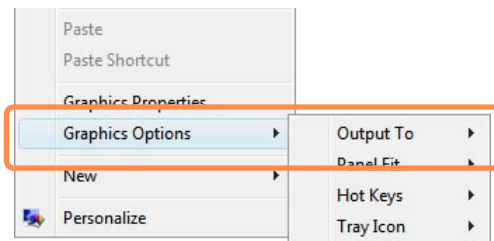
Method 2. Configuring with the Intel Program



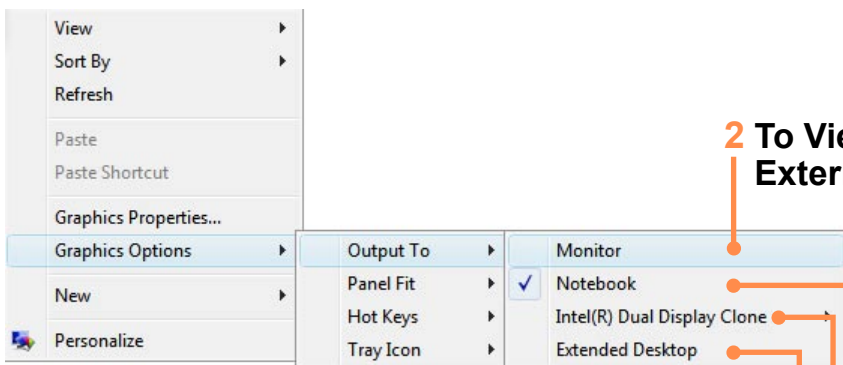
* The terms and the screen figures in the manual may differ from actual ones.

- 1 Connect the monitor and click the **Intel(R) Graphics Media Accelerator Driver for Mobile** icon () on the Taskbar. Or right-click on the desktop. The pop-up menu appears.

- 2 Select **Graphics Options** and **Output To** from the pop-up menu.



- 3 Select a display mode from among the available **Display Modes 1~4** in the **Graphics Options** menu.



2 To View through the
External Monitor Only

1 To View through a Notebook
Computer (LCD) Only

3 To View through the LCD +
External Monitor (Clone Mode)

4 To View through the LCD +
External Monitor (Extended Mode)

Display Device	Display Mode
<p>1 When carrying it</p>	<div data-bbox="560 212 804 347" data-label="Image"> </div> <p>Select Notebook.</p>
<p>2 When playing a game</p>	<div data-bbox="470 438 884 611" data-label="Image"> </div> <p>Select Monitor.</p> <p>When playing a game, using only the external monitor is better.</p>
<p>3 When giving a presentation (Clone Mode)</p>	<div data-bbox="470 726 884 898" data-label="Image"> </div> <p>Select the Intel(R) Dual Display Clone.</p> <p>When selecting this mode, you can view the same screen on both the LCD and the external monitor.</p>
<p>4 When giving a presentation (Extended Mode: Dual View)</p>	<div data-bbox="470 1045 884 1217" data-label="Image"> </div> <p>Select the Extended Desktop.</p> <p>When selecting this mode, you can view a screen spanning over the LCD and the external monitor, and you can set different resolutions for each display device.</p>

Adjusting the Volume

You can control the volume with the Volume Control button or Volume Control program.

Using the Volume Control with the Volume Control Button

- **For models with the Touch Sensor buttons only**

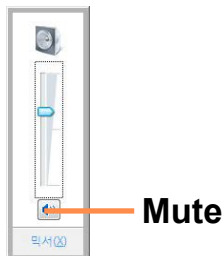
Press the **VOL-**button (VOL-) with your finger to turn the volume down. Press the **VOL+**button (VOL+) to turn the volume up.

- **For models without the Touch Sensor buttons only**

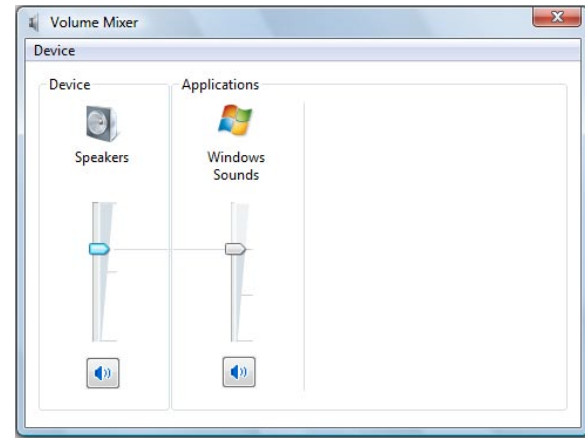
Press the **User Defined buttons** (◀/▶) while holding down the **DIAL KEY** to adjust the volume.

Adjusting the Volume using the Volume Adjustment Program

Click the **Volume** icon (🔊) on the taskbar and slide the volume control bar to adjust the volume.



Alternatively, right-click over the **Volume** icon (🔊) and select **Open Volume Mixer** to adjust the volume.

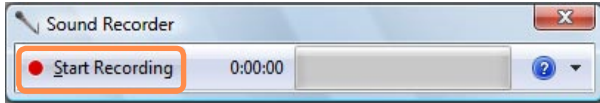


Using the Sound Recorder

The procedures to record sound using the Windows Recorder are described below.

- 1 Right-click over the **Volume** icon (🔊) on the taskbar and select **Recording Device**.
- 2 Check if the microphone is set as the default recording device.
If this is the case, it is already set as the default device. If not, right-click over the microphone and select **Set default**.

- 3 Click **Start > All Programs > Accessories > Sound Recorder** and click **Start recording** to start a recording.



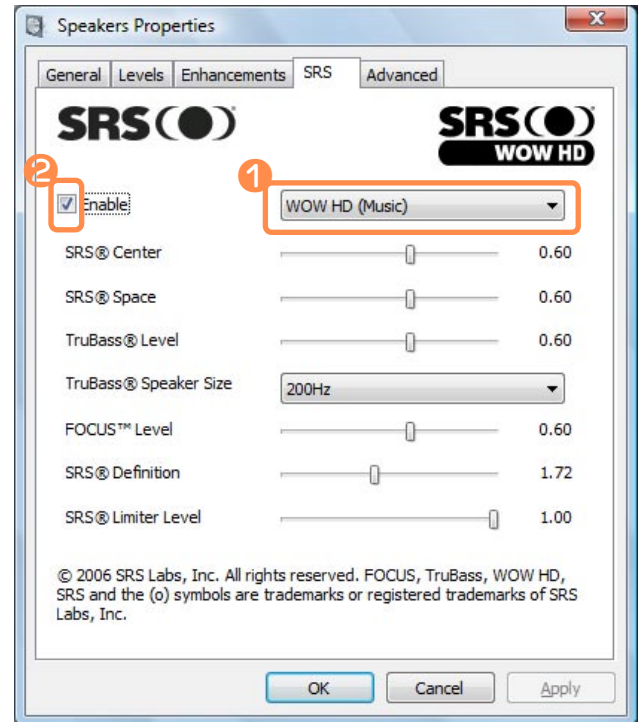
Using SRS

The SRS function enables you to experience more stereophonic sound by expanding the space-perception through the stereo speaker.



This function is available for specific models only.

- 1 Right-click over the **Volume** icon (🔊) in the Taskbar and select **Playback Device(P)**.
- 2 Select **Speaker** in the **Playback** tab and click **Properties**.
- 3 Select the **SRS** tab in the **Speaker Properties** window. ① Select a mode, select the ② **Enable** checkbox on the left and click **OK**. Then you can listen to sound through the selected SRS effect.



- **WOW HD(Music)**: Select to listen to music.
- **TruSurround XT(Movie/Video)**: Select to watch a movie.



The SRS function supports the computer's built-in speaker and headphones only.



Chapter 3.

Using Microsoft Windows Vista

About Microsoft Windows Vista	71
Windows Vista Screen Layout	74
Control Panel	83

The screen shots used in this chapter may differ from actual screens depending on the Windows Vista version and model.

About Microsoft Windows Vista

Microsoft Windows Vista (hereafter Windows) is a computer operating system. Since you have to learn how to use it in order to use the computer efficiently and effectively, use the **Welcome Center** and **Windows Help and Support** to learn about Windows Vista.

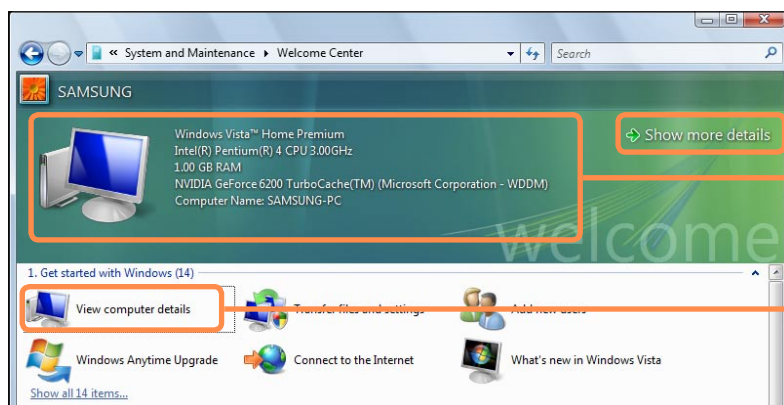


The screen layout may differ depending on the computer model and the operating system.

Welcome Center

In the Welcome Center, you can view brief descriptions of Windows Vista functions and run the functions directly.

- 1 Click **Start > Welcome Center**.
- 2 If you click on an item, information on the function is displayed in the description window.
For example, if you click **View computer details**, your computer information is displayed in the description window.
In addition, if you click on **Show more Details**, you can view more detailed information.



2

Description Window

1



Windows Vista Demo

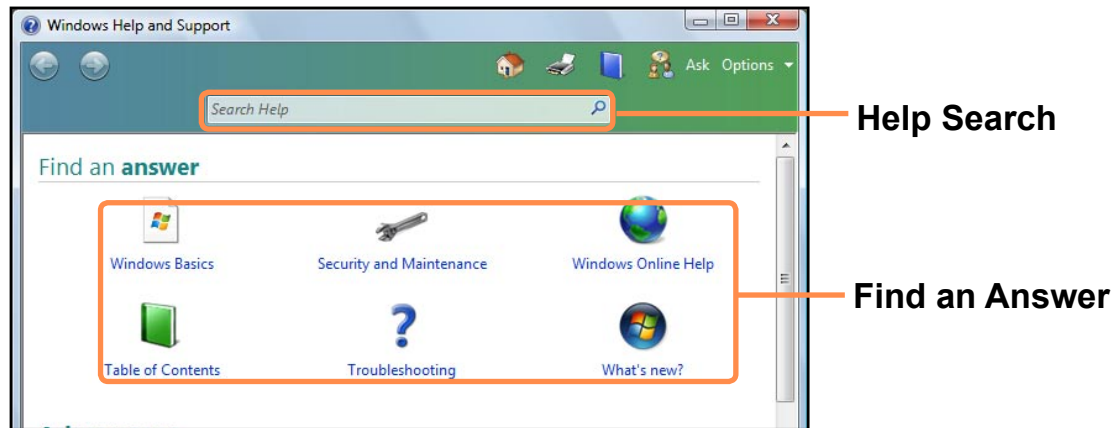
If you click **Start > Welcome Center > Show all 7 items > Windows Vista Demo**, you can watch the Windows Vista introduction movie.

Help and Support

Windows Help and Support provides information on Windows basic functions and usages.

Click **Start > Help and Support**.

You can find help for frequently used basic functions using Find an Answer and you can search for help by entering a keyword in the Search box.



Windows Basics



Introduces the basic usage of the computer and the Windows operation system.

You can learn tasks and tools necessary to use the computer.

Security and Maintenance



You can view help on computer protection and security.

Windows Online Help



If your computer is connected to the Internet, you can view the necessary information online.

Table of Contents



The help pages are arranged by subject so that users can easily find the relevant information.

Troubleshooting



You can view possible problems that may occur while using Windows and solutions to the problems.

What's new?



You can view help for new Windows Vista features.

Tablet PC Setting Information

This computer is a Tablet PC with a touch screen.

In the Tablet PC Settings of the Control Panel, you can set the screen correction, screen pivot function and whether to use the left-handed or right-handed option.

Click **Start > Control Panel > Hardware and Sound > Tablet PC Settings**.



For the efficient use of a Tablet PC

You can use the computer more efficiently in a short time by learning how to use your fingers and the Stylus Pen.

Click **Start > All Programs > Tablet PC** and then click **Tablet PC Touching Training** or **Tablet PC Pen Training**.

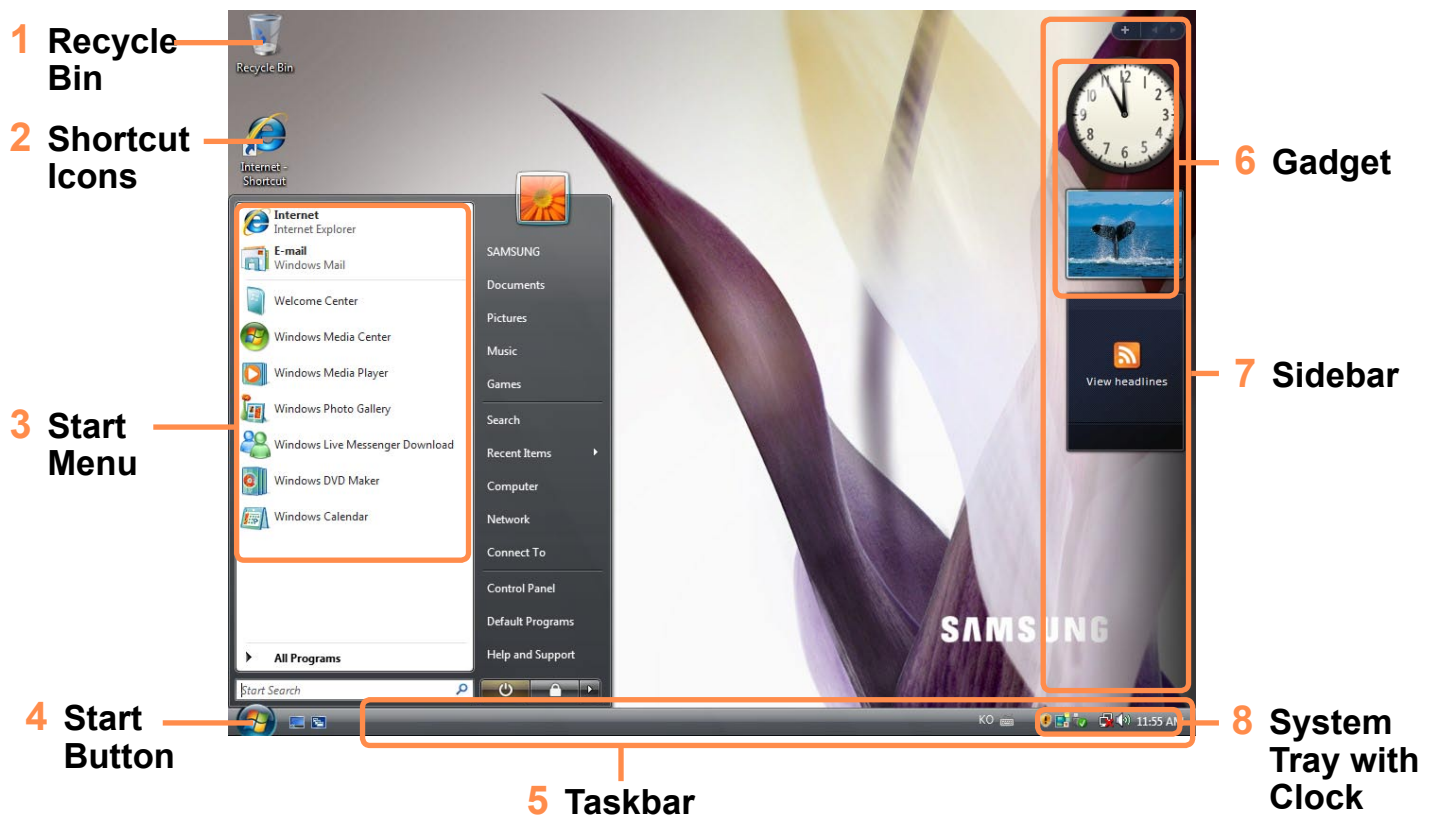
Windows Vista Screen Layout

Desktop

If you turn the computer on, the Desktop screen appears. The desktop is the working area on the computer. It consists of a large workspace and a taskbar at the bottom as shown in the figure below.



The screen layout may differ depending on the computer model and the operation system version.



-
- | | |
|---------------------------------|--|
| 1 Recycle Bin | You can drop useless files and folders here. |
| 2 Shortcut Icons | You can launch programs by clicking the shortcut icons on the Desktop. |
| 3 Start Menu | The menu from which you can launch programs. |
| 4 Start Button | Press the start button. The Start menu appears. |
| 5 Taskbar | Currently running programs are displayed here. |
| 6 Gadget | This is a mini information program that appears on the Sidebar. |
| 7 Sidebar | This is a vertical bar that appears at the side of the Desktop. |
| 8 System Tray with Clock | Shows some running program icons. Icons not being used are hidden. If you click the arrow mark on the left, you can view hidden icons. |
-

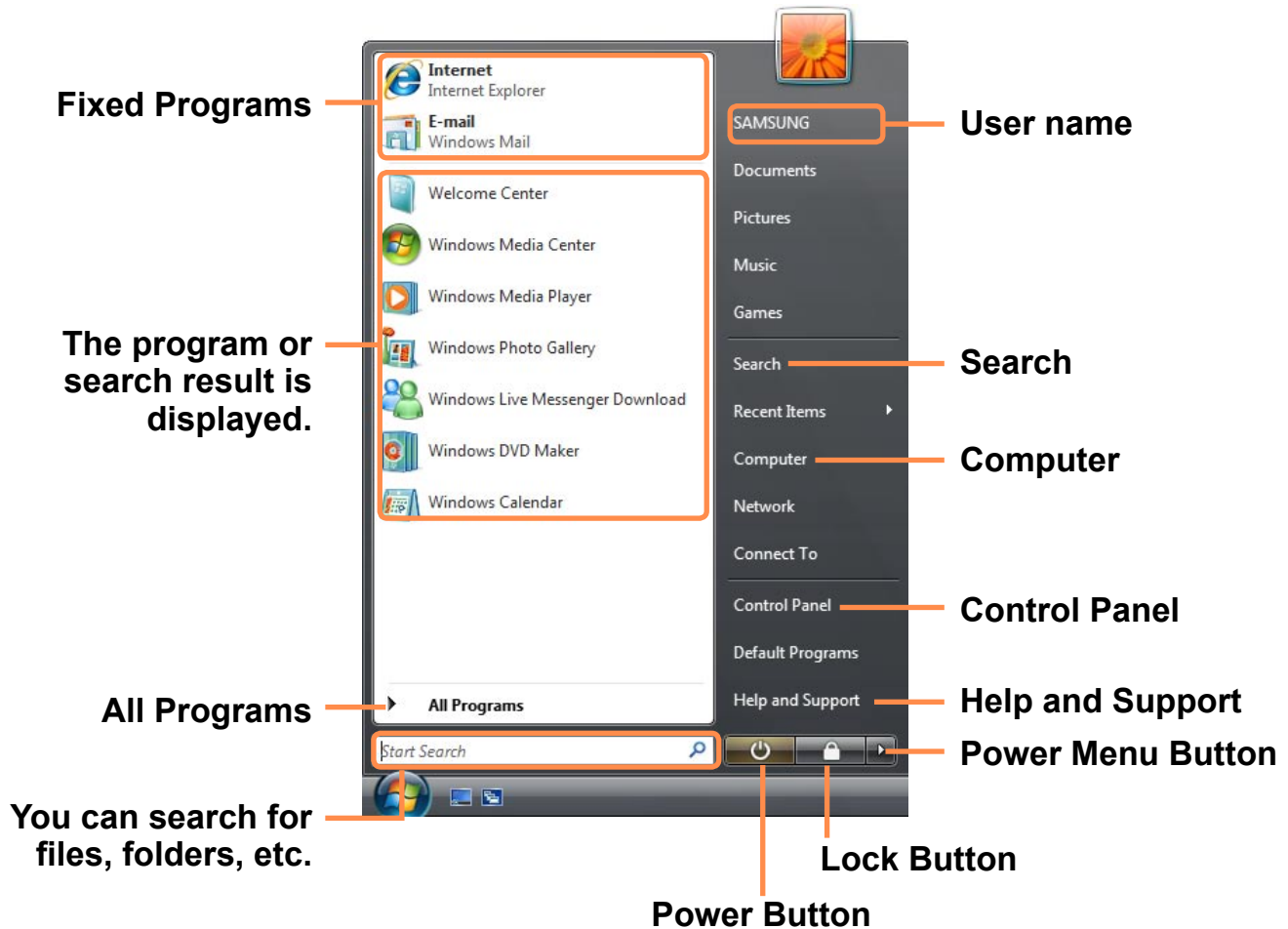









Some item may not be provided depending on the Windows Vista version.

Start Menu

The menu from which you can launch programs.

Click **Start** (🖥️). The Start menu appears.



Search		Enables users to search for files and folders.
Computer		Shows storage devices such as hard disk drives, CD/DVD drives, network drives, etc. In addition, you can manage files and folders here.
Control Panel		Enables users to configure the appearance and settings of Windows such as the Desktop, window colors, hardware and software settings, security, etc.
Help and Support		Provides on-line help about function, usage of Windows, and troubleshooting. You can find a solution to a problem by entering a keyword.
Power Button		Click the Power button to enter Sleep mode. However, what the power button does changes according to the power button setting. ⓘ p.88
Lock Button		To lock the computer, click this button. If you lock your computer, no one can use the computer until you enter the password.
Power Menu Button		Click the Power Menu button to shut down, restart, and logoff from the computer.

Sidebar / Gadget

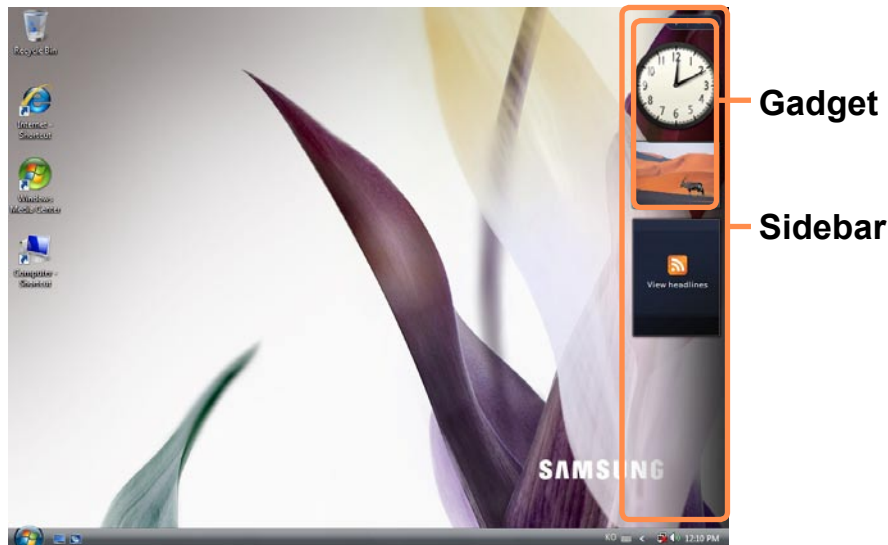
Sidebar is a vertical bar that appears at the side of the Desktop.

A mini program called Gadget runs over the Sidebar which shows information such as stocks, schedule, weather, etc. and provides frequently used tools.

You can download various Gadgets from the Internet, other than the default Gadget.

Sidebar / Gadget Structure

To use the Sidebar/Gadget, click **Start > All Programs > Accessories > Windows Sidebar** to launch it.

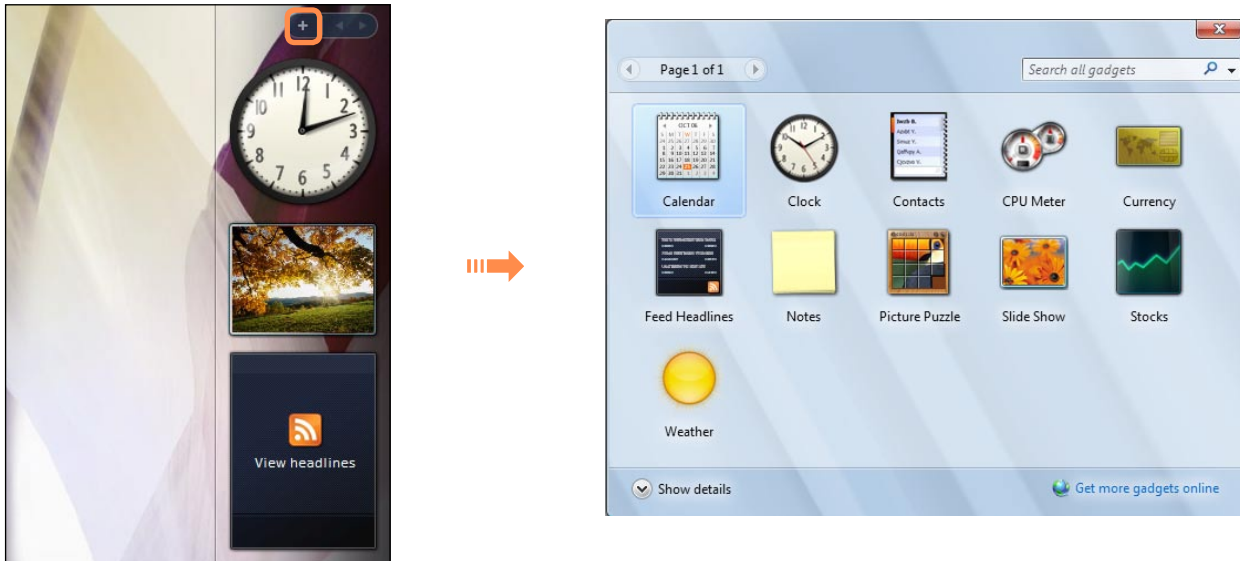


To always display the Sidebar, right-click over the Sidebar and select **Properties** and then select the **Sidebar is always on top of Screen** option in the **Arrangement** field.

Adding a Gadget

You can find a gadget in the **Gadget Gallery** and add it to the Sidebar.

1 If you click the **+** at the top of the Sidebar, the Gadget Gallery opens.




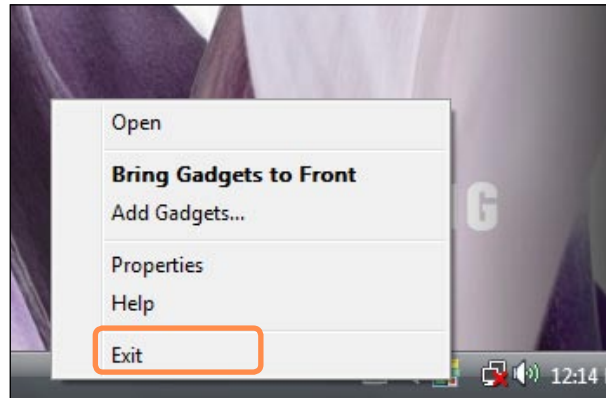
2 If you double-click on a gadget, the gadget is added to the Sidebar.



- If you drag a gadget to a new location with the Stylus Pen it moves the gadget to that location.
Not only can you move a gadget onto the Sidebar but also out of the Sidebar.
- If you tap on the gadget with the Stylus Pen, the Close and Option buttons appear.

Exiting the Sidebar

Right-click on the **Sidebar** icon () in the System Tray with the clock on the taskbar and select **Exit** to exit the Sidebar.



Closing the Sidebar

- Even if you close the Sidebar, the Sidebar continues running in the System Tray in the clock area, though it is not displayed on the Desktop.
- To close the Sidebar, right-click over the Sidebar on the Desktop and select **Close Sidebar**.

To open the Sidebar again, right-click on the **Sidebar** icon () in the System Tray with the clock on the taskbar and select **Open**.

Window

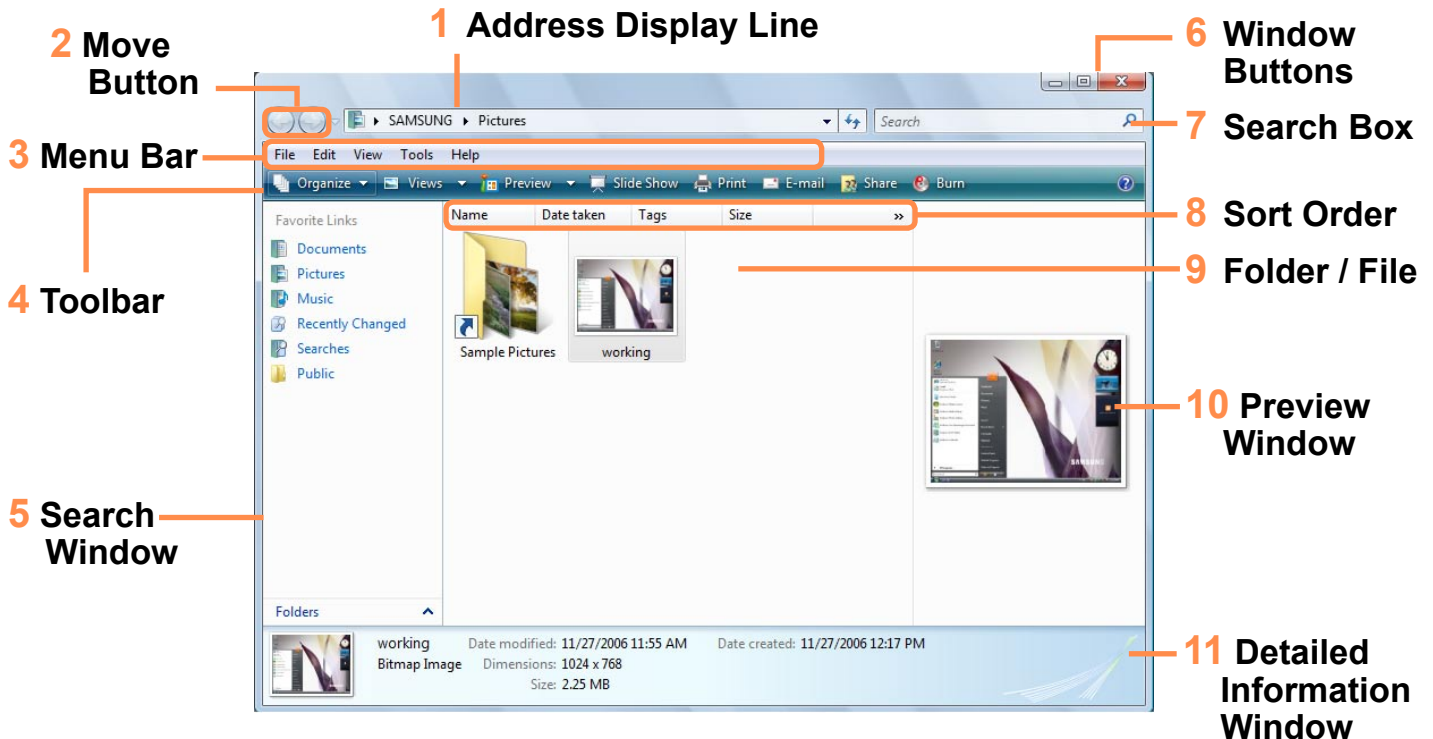
A window is the basic frame for a computer operation. As an example, let's see the layout of a **Pictures Window**.






Click **Start > Pictures**.



The items and names may differ depending on your computer model and the Windows Vista version.

Window Layout



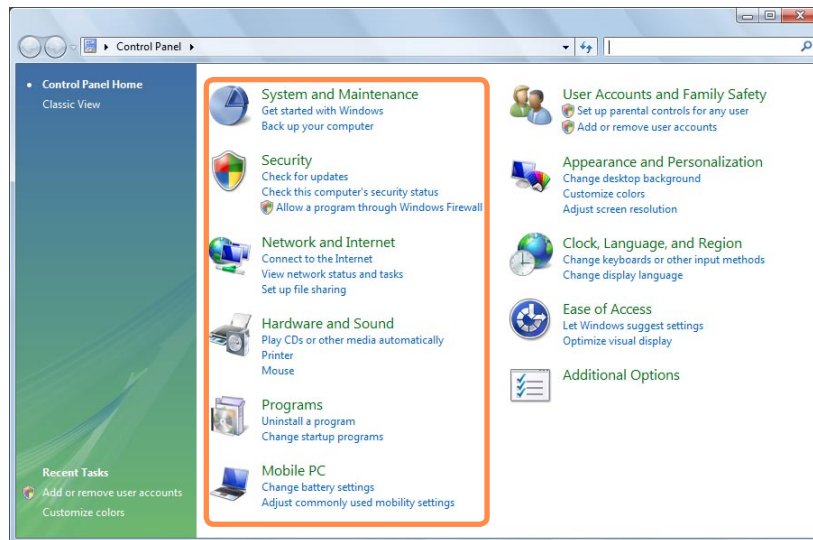
1 Address Display Line	Shows the location of the currently selected folder or file.
	You can move to the previous or next page by clicking the Back or Next buttons.
2 Move Button	 Opens the previously opened page.  Opens the next page, when you have returned to a previous page.
3 Menu Bar	Provides menus to run functions for the selected folder or file, etc.
4 Toolbar	Provides icons to quickly run frequently used functions.
5 Search Window	<p>You can view the drive structure and the currently opened window location.</p> <p>You can move directly to a folder by clicking the folder in the Search window.</p>
6 Window Buttons	<p>Used to resize the window.</p>  Minimizes the window.  Maximizes the window.  Closes the window.
7 Search Box	You can search for files by specifying the text included in the file name or within the file or file attributes.
8 Sort Order	Used to change the sort order of the files.
9 Folder / File	The drives, folders and files included on the computer are displayed here.
10 Preview Window	<p>You can preview a selected file before opening it.</p> <p>A preview function is not provided for drives and folders.</p>
11 Detailed Information Window	Shows the general information of the selected file.

Control Panel

Tools for configuring Windows are located in the Control Panel.

Opening the Control Panel

Click **Start > Control Panel**.



System and Maintenance



Using this function, you can configure Windows performance options.

Security



Using this function, you can check the current security status to protect the computer and configure the security settings for the firewall, spyware, etc.

Network and Internet



Using this function, you can check the network status and configure the settings.
You can change the Internet connection settings.

Hardware and Sound



Using this function, you can add a printer and other hardware, change the settings, and update the device drivers.

Programs

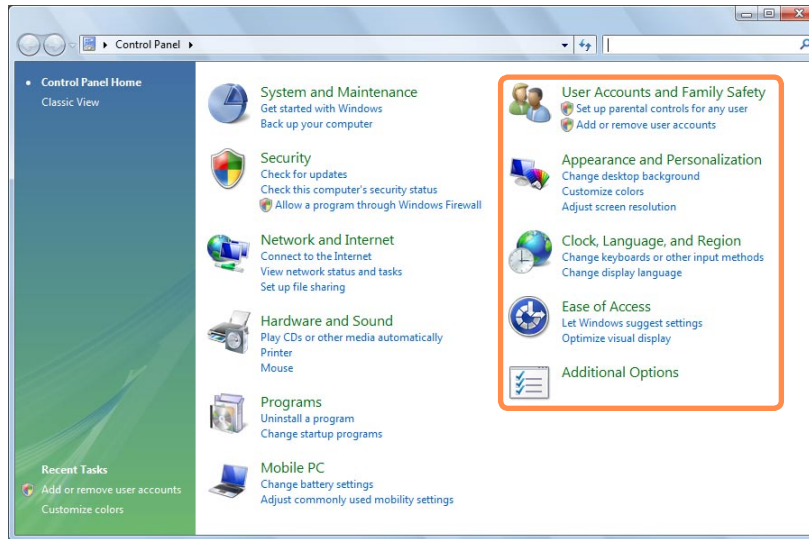


Using this function, you can remove a program, Windows function, or download a new program from the internet.

Mobile PC



You can set up the mobility, power option and personal settings for your mobile PC. You can also synchronize your mobile PC with another portable device or network folder.



User Accounts and Family Safety



You can change the user account settings, passwords and configure the Parental Controls function.

Appearance and Personalize



Using this function, you can configure the Desktop style, theme or screen saver settings.

Clock, Language, and Region



Using this function, you can configure the date, time, language and regional settings.

Ease of Access



Using this function, you can select options for hearing and sight impaired persons as well as for challenged persons. You can configure the audio recognition settings.

Additional Options



Using this function, you can configure other Control Panel item settings.

User Accounts

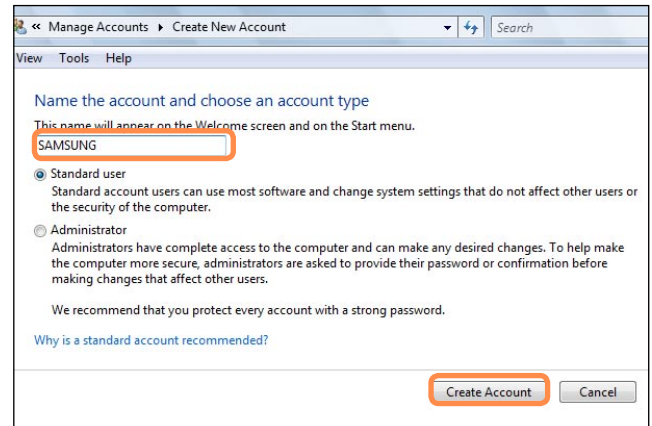
Using Windows Vista User Accounts, more than one user can easily share the same PC.

The procedures to add and delete a user account and to switch users, are described below.

Adding User Accounts

- 1 Click **Start > Control Panel> User Accounts and Family Safety**.
- 2 Click **User Accounts > Manage another account**.
- 3 Click **Create a new account**.
- 4 Enter a new **username** and select either Standard User or Administrator.

- 5 Click **Create Account** to add a new account.



Removing User Accounts



- If there is only one **administrator account** for the computer, you cannot delete the **administrator account**.
- You can only delete another account when you are logged in as an administrator.

1 Click **Start > Control Panel > User Accounts and Family Safety > User Accounts**.

2 Click **Manage Another Account**.

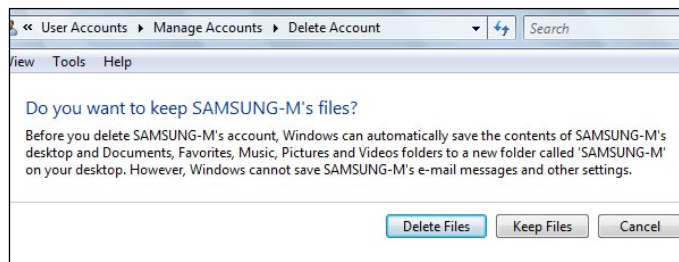
3 Click on the user account to be deleted.

4 Click **Delete the Account** in the Make changes to user's account menu.

5 A window appears asking whether you want to save the desktop, documents, favorites, music files, pictures and video folders as new folders on the Desktop before deleting the account.

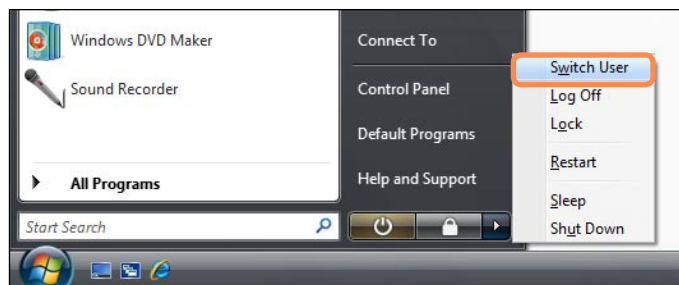
If you click **Delete files**, the account and all files belonging to the account are deleted.

If you click **Keep files**, only the account is deleted and the files belonging to the user are saved on the Desktop.



Switching User Accounts

1 Click **Start** (Windows logo) on the taskbar and select **Switch User**.



2 If you click on another username in the start screen, you can login with that user account.

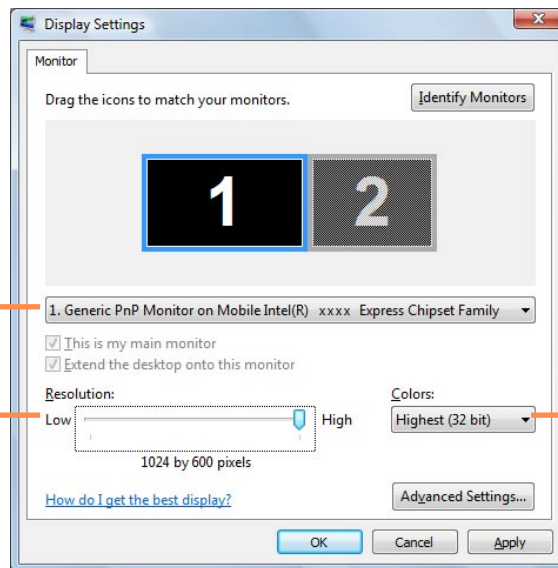
Changing the screen resolution and the color

The resolution refers to the number of pixels displayed on the screen. When increasing the resolution, the items on the Desktop become smaller and more items can be displayed on the screen. The higher the color quality, the more colors are displayed on the screen.

- 1 Click **Start > Control Panel > Appearance and Personalization > Personalization > Display Settings**.

Alternatively, right-click on the Desktop and select **Personalization > Display Settings** from the pop-up menu.

- 2 The Display Settings screen appears.
Change the resolution and color settings and click the **OK** button.



You can check the graphics chipset.

To change the resolution, slide the resolution sliding bar to a particular resolution.


To change the color quality, click this button and select a particular quality.



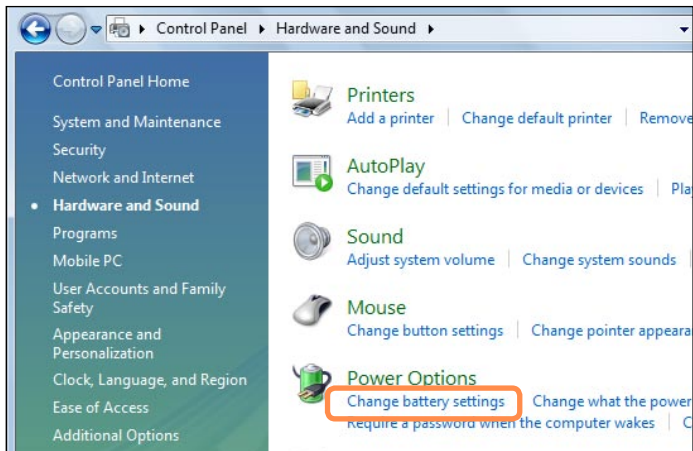
The following resolutions and color qualities are recommended according to the computer LCD panel type.

LCD Type	Resolution	Color Quality
7" WSVGA	1024 x 600	Very High (32bit)

Configuring the Start Menu Power Button

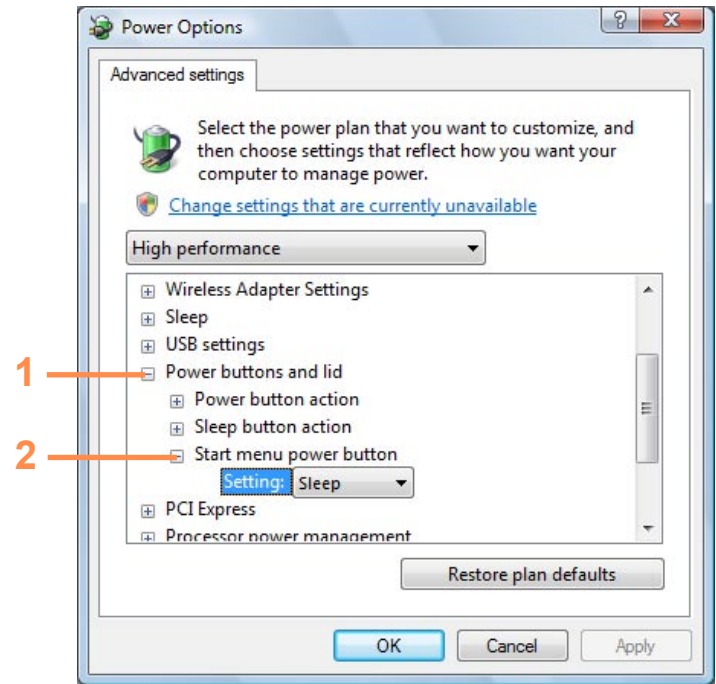
The Power button on the Start menu () performs various operations depending on the settings.

- 1 Click **Start > Control Panel > Hardware and Sound > Power Options** and then **Change battery settings**.



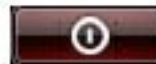


- 2 Click on **Change Plan Settings** in the currently selected power setting.


- 3 Click on **Change Advanced Power Settings** and open **Start Menu Power Button** in the **Power Buttons and Lid** item.



4 Select a power plan and click the **OK** button.

Type	Description	Power Button Image after Setting Change
Sleep	Sets the computer to enter Sleep mode. The screen and hard disk will be turned off to reduce the power consumption of the overall system. If you slide the power switch of the computer downwards, the computer wakes from Sleep Mode and you can resume working.	
Hibernate	Sets the computer to hibernate. All work is automatically saved, the screen is turned off and the computer makes no noise. If you slide the power switch of the computer downwards, the computer wakes from Hibernation Mode and you can resume working.	
Shut down	Shut down the computer. You have to shut down the computer after closing all programs and opened folders.	



- The Power button is set to Sleep mode by default.
- If the computer is set to download Windows updates automatically, the update mark () is displayed on the Power button when an update is ready. If you click this button, the update is installed and the computer is shut down when the update installation is complete.

Phishing Filter

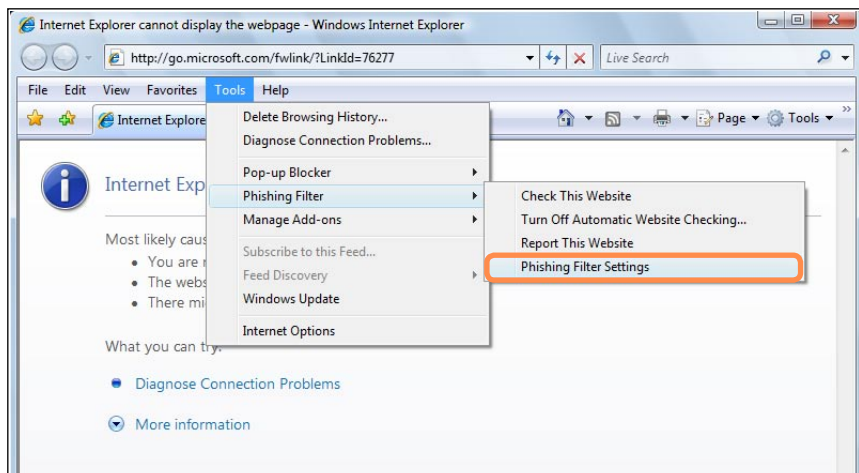
Phishing is a method used by hackers to illegally collect personal information such as credit card numbers, passwords, other account numbers, etc. through emails or websites.

The Phishing Filter protects users from these phishing attempts.

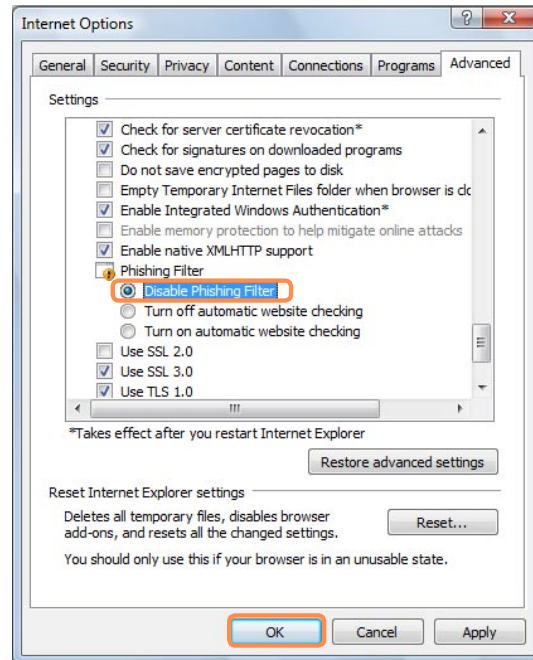
If the current page is judged to be a suspicious website, the Phishing Filter displays a warning message with an alarm when the Phishing Filter is enabled. In addition, if a page that the user is currently trying to open is registered as a known Phishing website list, it displays a warning page instead.

Phishing Filter Settings

- 1 Launch Internet Explorer.
- 2 Select **Tools** from the menu and click **Phishing Filter > Phishing Filter Settings**.



- 3** The Internet Options window opens. Locate the Phishing Filter item in the Settings field. Select **Turn on automatic website checking** and click the **OK** button to use the Phishing Filter.



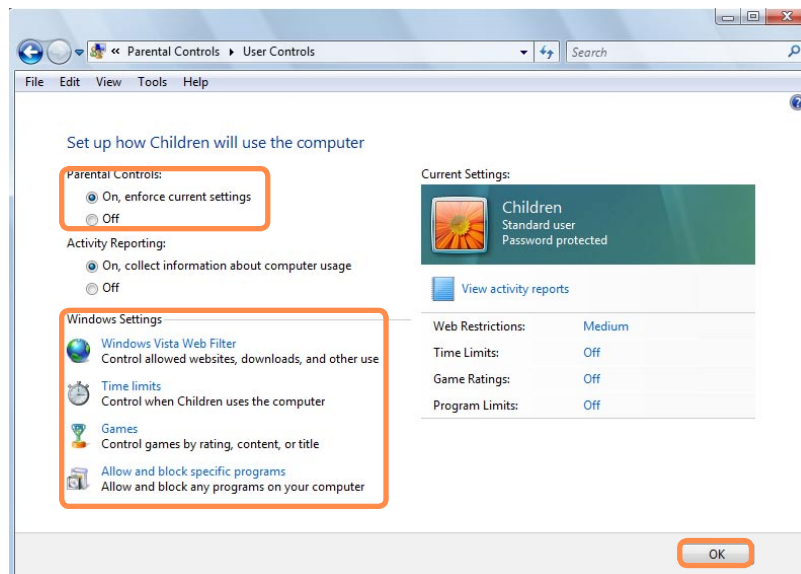
- 4** To not use the Phishing Filter, select **Turn off automatic website checking** in the Settings field in Step 3 above.

User control function

Using this function, you can control the content your children can access. You can determine for how long they can use the computer and the content they can access. When you have finished the settings, click OK to finish.

Configuring Parental Controls

- 1 Click **Start > Control Panel > User Accounts and Family Safety > Parental Controls**.
- 2 Select a user to configure the Parental Controls for. The **User Controls** window for that user opens.
- 3 Click **Parental Controls > Use** and configure the necessary settings in the **Windows Settings** at the bottom. If you click **OK**, the Parental Controls setting is completed.

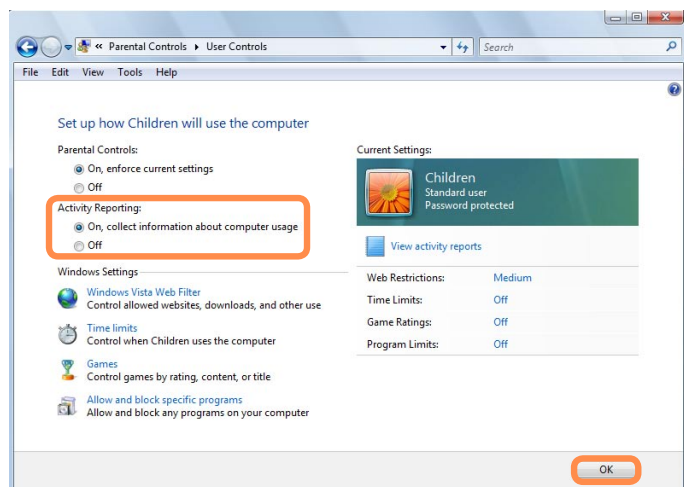


Using Activity Report

You can view and evaluate your children's internet access through the Activity Report.

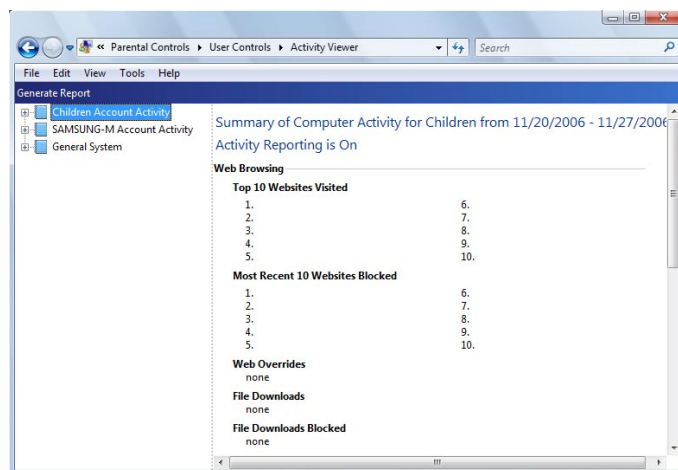
1 Open the **User Controls** window referring to the descriptions of **Parental Controls**.

2 Set **Activity Reporting** to **On**.



3 To view the Activity Report, click on **View Activity Report** on the right of the **User Controls** window.

4 If you click the **View Activity Report**, the following window opens displaying a computer operating summary.



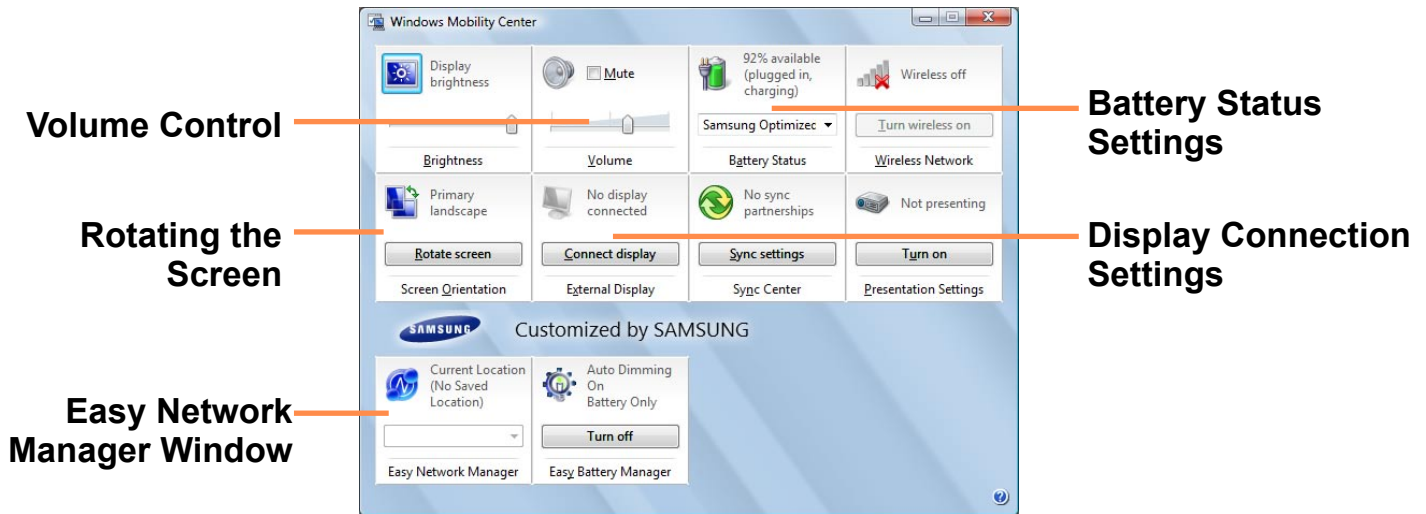
Windows Mobility Center

Using the Windows Mobility Center, you can easily configure computer settings such as the volume, wireless network connection settings, display settings, etc. all at the same time.



Some functions may not be supported depending on the Windows Vista version.

- 1 Click **Start > All Programs > Accessories > Windows Mobility Center**.
Alternatively, click **Start > Control Panel > Mobile PC > Windows Mobility Center**.



- 2 Configure the volume, battery status, external display, Sync center, etc. according to your requirements.



- Configurable items may differ depending on the installed Windows Vista version or programs.
- If the Easy Network Manager program is installed, you can see Easy Network Manager window. (p.102)
- If you turn off Wireless Networking in the Mobility Center, it will not affect the Wireless LAN LED and the MENU program. If you turn off the Wireless LAN in the MENU program, the Wireless LAN LED will be turned off and the Wireless Network button of the Mobility Center will also be disabled.



Chapter 4.

Using the Network

Wired Network	96
Wireless Network	99
Using the Easy Network Manager	102
Bluetooth	106

Wired Network

A wired network is a network environment used for a company network or broadband internet connection at home.



You can also configure the network settings using the Easy Network Manager.
p.102

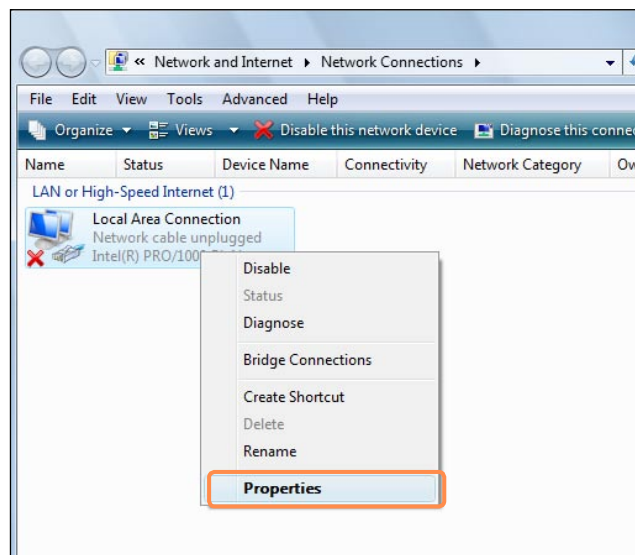
- 1 Connect a LAN cable to the computer's LAN port.



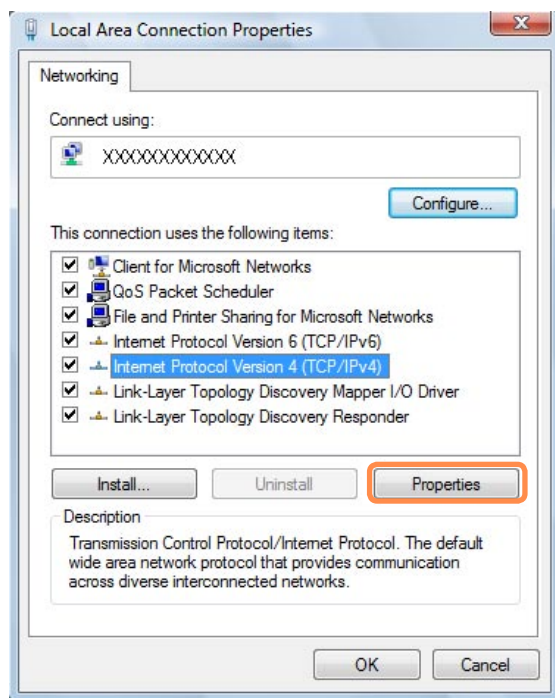
- 2 Click **Start > Control Panel > Network and Internet > Network and Sharing Center**.

- 3 Click **Manage Network Connections** from the left pane.

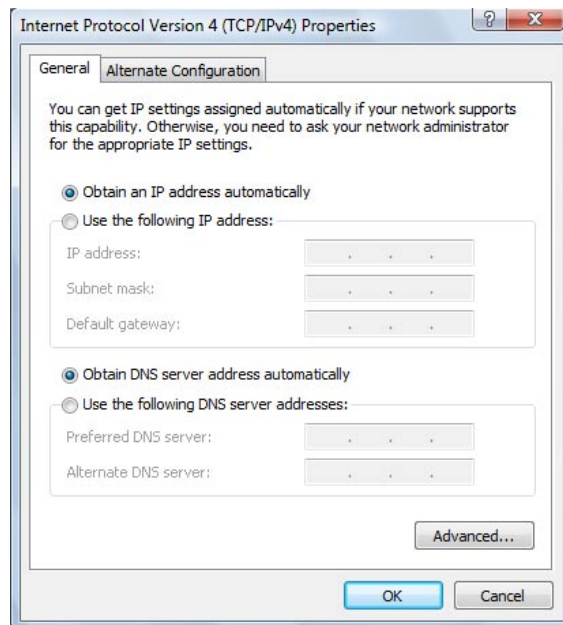
- 4 Right-click over the **Local Area Connection** and select **Properties**.



- 5 Select **Internet Protocol Version 4 (TCP/IPv4)** from the **Networking** tab and click **Properties**.



- 6 Configure the IP settings. When using DHCP, select **Obtain an IP address automatically**. To use a static IP address, select **Use the following IP address**, and set the IP address manually.



- The LAN device driver may differ depending on your LAN device model.
- To add a network component, click **Install** in the screen shown in the figure above. You can add clients, services, and protocols.



When not using DHCP, ask your network administrator for the IP address.

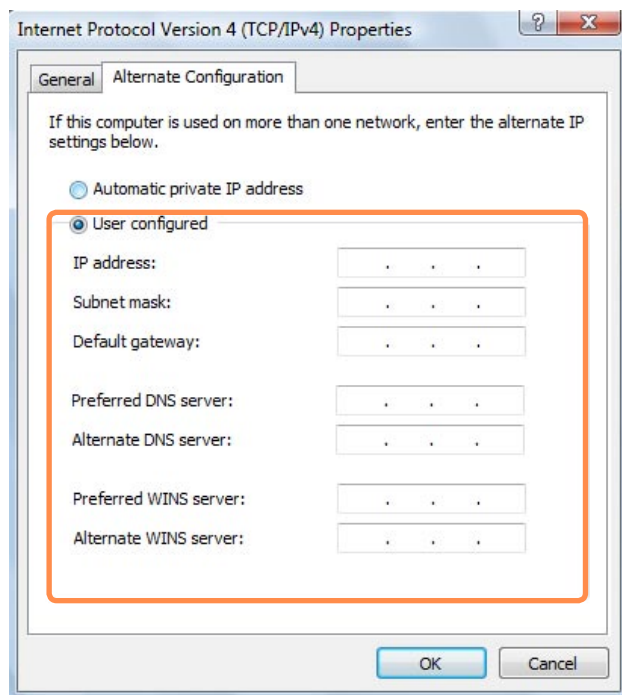
- 7 When you have completed the settings, click the **OK** button. The network settings have been completed.

Using both DHCP and a fixed IP simultaneously

Using the **Alternate Configuration** providing by Windows Vista, you can set both automatic and fixed IP addresses and then you can select to use either of them to connect to the Internet.

- 1 Click **Start > Control Panel > Network and Internet > Network and Sharing Center** and click **Manage Network Connections** in the left pane.
- 2 Right-click over the **Local Area Connection** and select **Properties**.
- 3 Select **Internet Protocol Version 4 (TCP/IPv4)** from the **Networking** tab and select **Properties**.

- 4 Select the **Alternate Configuration** tab, select **User configured** and fill in the corresponding fields.




- 5 When you have completed the settings, click the **OK** button.

Wireless Network

A wireless network (Wireless LAN) environment is a network environment that enables communicating between multiple computers at home or a small-size office through wireless LAN devices.



- The descriptions below are for computer models with a Wireless LAN card or device. You can also configure the wireless network settings using the Easy Network Manager.  p.102

A Wireless LAN device is optional. To view the installed wireless LAN card, click **Start > Control Panel > Hardware and Sound > Device Manager > Network Adapter** and click the + symbol.

The figures in this manual may differ from the actual ones depending on your wireless LAN device model.

- To use the wireless LAN, you have to turn the wireless LAN on first. To turn it on, click the **MENU** button and set the **Wireless LAN** item to **On**. If the wireless LAN is turned on, the **Wireless LAN LED** is lit.

Wireless LAN Connections

Wireless network connections can be classified into 3 categories and this manual describes the connection procedures for connecting through an **Access Point (AP)**.

■ Access Point (AP)

You can connect to the Internet or another computer on the network through an AP.



What is an Access Point (AP)?

An AP is a network device that bridges wired and wireless LANs, and corresponds to a wireless hub in a wired network. You can connect multiple wireless LAN installed computers to an AP.

■ Computer-to-computer (ad hoc) network

This is also called a peer-to-peer network. In computer-to-computer wireless networks, you can connect 2 or more computers with wireless LAN modules.

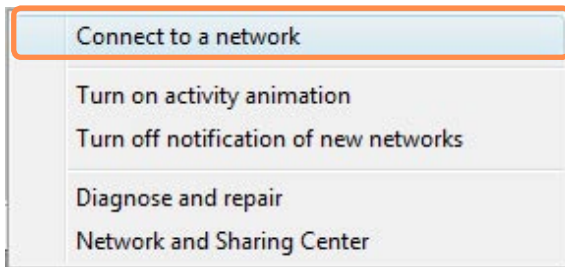
For details, see the descriptions that appear when clicking **Start > Help and Support > Table of Contents > Networking-connecting computers and devices > Setting up a network > Setting up a computer-to-computer (ad hoc) network**.

When you use Ad-Hoc, you have to change the McAfee Firewall settings.

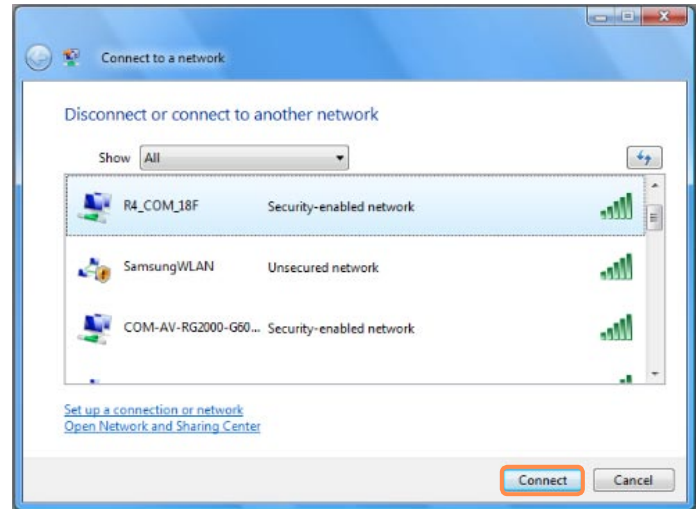
Connecting to a Wireless LAN

If there is an AP, you can connect to the Internet via the AP using the Wireless LAN connection method provided by Windows Vista.

- 1 Right-click over the **Network Connections** (📶) icon on the taskbar and click **Connect to the Network**.




- 2 Select an AP to connect to and click **Connect**. If there is a configured network key for the AP to connect to, the Enter Network Key window appears. Enter the network key in the window and then click the **Connect** button.

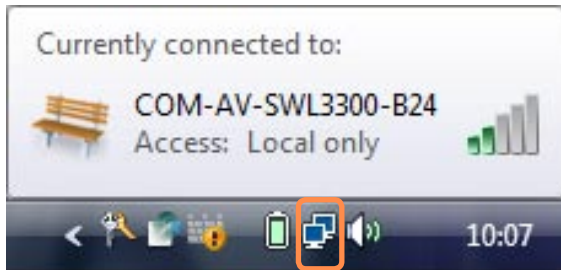


Ask your network administrator for the network key, if necessary.

- 3 When **Connected** to the AP is displayed, click the **Close** button. You can access the network.

Checking the network connection status

If you move the pointer over the **Network Connections** icon () of the Taskbar, you can view the connection status.



Using the Easy Network Manager

The Easy Network Manager is a program that helps configure the network settings.

The Easy Network Manager provides the following features.

- **You can easily configure the network and printer settings.**
- **You can immediately use the network without having to define new network settings again after moving to another location.**

By configuring the network settings (IP address, printer settings, etc.) for each location, you can immediately access the network without following the network setting procedures each time regardless of your location.

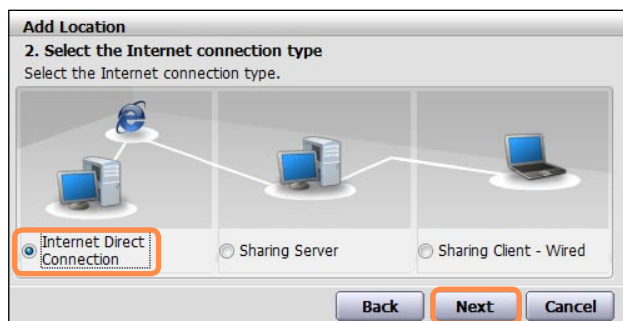
- **You can diagnose the network status.**

Network Settings

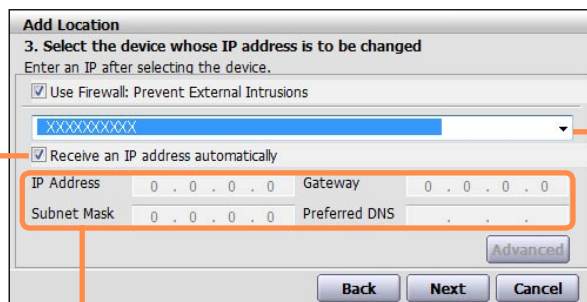
This section describes the procedures to connect to the Internet by setting up a network. The setting up procedures include procedures to add a printer to the network.

- 1** To use a wired LAN, connect the LAN cable to the LAN port. To use the wireless LAN, you have to turn the wireless LAN on first.
To turn it on, press the **MENU** button and set the **Wireless LAN** item to **On**. If the wireless LAN is turned on, the **Wireless LAN LED** is lit.
- 2** Click **Start > All Programs > Samsung > Easy Network Manager > Easy Network Manager**.
- 3** Click the **Add** button.
- 4** Select a network location icon and enter the name of the location (e.g. Home). Click the **Next** button.

- 5 Select **Internet Direct Connection** and click the **Next** button.



- 6 Select the LAN device, setup the IP address and click the **Next** button.



Select Device

Select a device to be connected to the Internet. Select either Wired LAN or Wireless LAN.

IP Settings

To use a static IP address, fill in the fields. For the IP address information, ask your network administrator.

Obtain an IP address automatically

Select DHCP to use this option (automatic IP setting).

- 7 Click **Add Printer** and set up a printer according to the wizard. When the printer has been added, click the **Refresh** button, select the newly added printer and then click the **Finish** button.

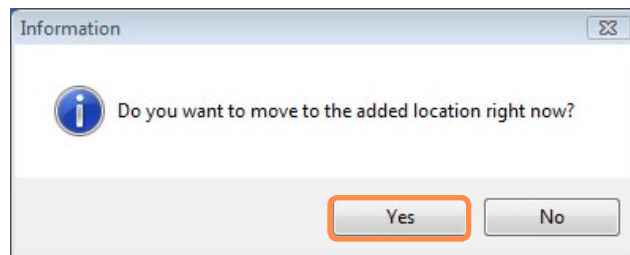


To not add a printer, click the **Finish** button.

- 8 When the network settings are complete, the '**Do you want to move to the newly added location now?**' message appears. Click the **No** button.

An icon for the added location is created. The network settings have been completed.

If you select '**Yes**', the network settings for the added location are applied.



To add a new location, repeat the procedures from Step 3 on p.102.

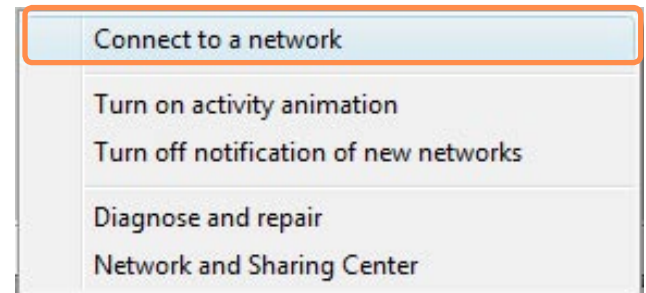
Using in Another Location

By configuring the network settings (IP address, printer setting, etc.) for each location, you can immediately access the network in one click, without performing the network setting procedures regardless of your location.

- 1 Click **Start > All Programs > Samsung > Easy Network Manager > Easy Network Manager** when connected to the Internet.
- 2 Select an icon that represents the corresponding location from the Saved Locations window and then click **Move**.
- 3 If the Internet connection is a wired LAN, you can immediately load the settings for the new location and the corresponding network connection information is displayed in the Current Location Information window.

If the Internet connection is a wireless LAN, you have to select an AP as follows.

- 1 Right-click over the **Network connection** (🔌) icon on the Taskbar using the mouse and select **Connect to the Network**.



- 2 Select an available AP and click the **Connect** button. If a network key is required, ask your network administrator for the key information.

Diagnosing the Network Status

You can diagnose the network state and find solutions for why you cannot connect to the network.

- 1 Launch Easy Network Manager.
- 2 Select **Management** and **Diagnose Status** from the menu.



- 3 The Network Connections window appears.
Click **Start** to start the network diagnosis.
- 4 When the diagnosis is complete, a device with a problem is marked by an exclamation mark icon with a description of the problem at the bottom of the window.

Bluetooth

Bluetooth is wireless communications technology that allows access to nearby devices such as another computer, cell phone, printer, keyboard, mouse, etc. without a cable connection. Using Bluetooth, you can exchange files, connect to the Internet, and construct a private network.



- The Bluetooth supporting function is only available between devices (a computer, cell phone, PDA, printer, etc.) and the connection may be restricted according to the profile of the corresponding device.
- The Bluetooth function is optional and may not be supported depending on your model.
- Compatibility to devices without the authentication or logo of Bluetooth is not guaranteed.

Bluetooth Function

File Transmission



You can exchange files between two Bluetooth devices.
You can exchange files with another Bluetooth device such as another computer, cell phone, PDA, etc.

Network Access



You can connect to another Bluetooth-installed computer in the same way as an Ad-Hoc mode in wireless LAN and connect to the network via an AP or an Internet connection sharing server.

Network Access through a Phone Connection



You can connect to the network via a Bluetooth cell phone.

Data Sync (Synchronization)



You can synchronize PIMS data (Outlook E-mail address data) with Bluetooth devices such as a cell phone, PDA, another notebook computer, etc.

Electronic Business Card (Vcard) Exchange



You can exchange business cards with Bluetooth devices such as a cell phone, PDA, another notebook computer, etc.

Sound Output



You can output computer sound to another Bluetooth device or vice versa.

HID Connections



You can connect and use Bluetooth peripherals such as a keyboard, mouse, joystick, etc.



For more information about using the Bluetooth function, refer to the online help for the Bluetooth Device.


Or click **Control Panel > Network and Internet > Bluetooth Devices**.

Using Bluetooth

The procedures to exchange files between computers supporting Bluetooth and to use other Bluetooth devices are described below.

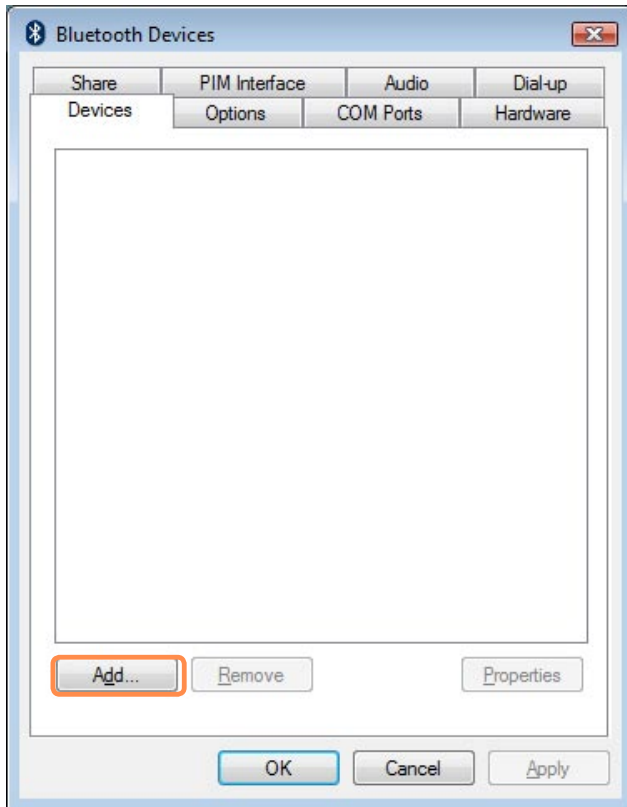
Using Bluetooth Devices (Connecting a Headset supporting Bluetooth)

As an example, the procedures to connect to a headset supporting Bluetooth will be described below. Searching for Bluetooth devices corresponds to Steps 1 to 4 and may be slightly different depending on the device.

- 1 To connect to another device via Bluetooth, double-click the Bluetooth icon() on the Taskbar.



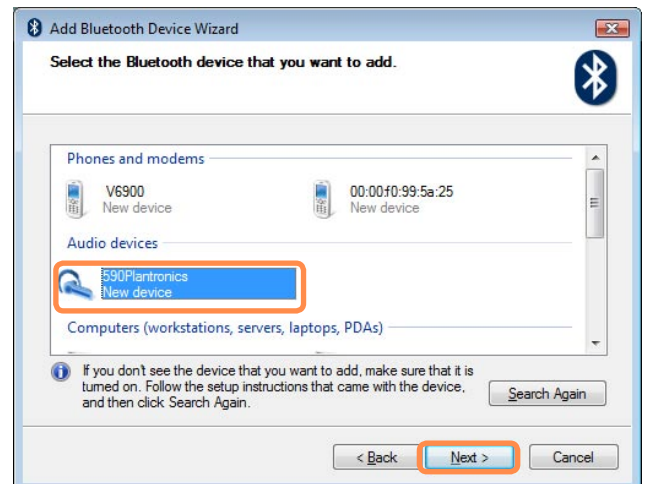
- 2 If the Bluetooth Device window appears, click **Add**.



- 3 If the Add Bluetooth Device Wizard screen appears, select the **My device is set up and ready to be found** and click the **Next** button.



- 4 When the search is complete, all available Bluetooth devices are listed. Select the Headset from the list and click the **Next** button.





- A Bluetooth device is represented by the device type and name (Dedicated Bluetooth ID).
- To use the Bluetooth headset, **Bluetooth Pairing Mode** is required.
For the procedures to set up the Bluetooth **Pairing Mode**, refer to the **Headset Manual**.

6 If the Add Bluetooth Device Wizard window appears, click **Finish**.

7 The headset is connected and you can now use the Bluetooth headset normally.

5 Enter the PIN in the device PIN field and click the **Next** button.

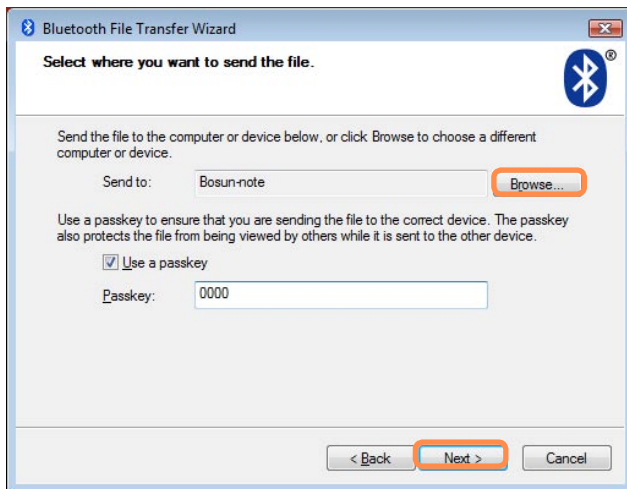


For pairing, a PIN is required. Since a PIN is provided by the headset manufacturer, refer to the corresponding manual.

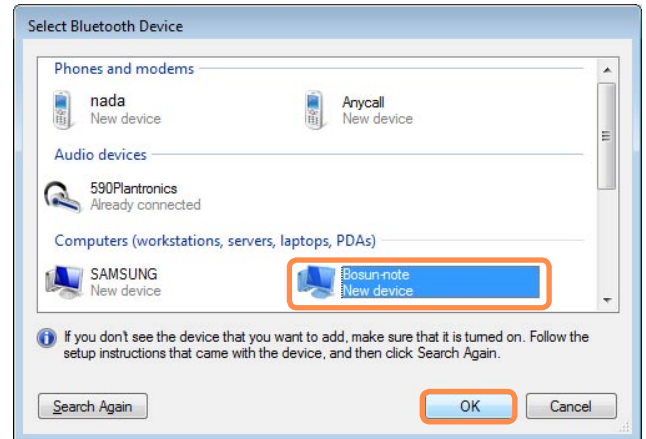
Exchanging Files between Bluetooth Computers

The procedures to exchange files between computers with Bluetooth capability are described below.

- 1 On the computer which is sending a file, right-click the **Bluetooth icon** (📶) on the taskbar and select File Transfer.
- 2 Click **Browse**, select a Bluetooth device to send the file to and click the **Next** button in the Select Bluetooth Device window.



- 3 Select a computer to which the file is transmitted and click the **OK** button.



- 4 Enter a PIN in the Bluetooth PIN Code field and click the **Next** button.



The **Bluetooth PIN Code** is a password used for connecting two Bluetooth devices. The user just enters the same PIN Code (E.g. same numbers) on both Bluetooth devices to make the connection.

- 5 Click **Browse**, specify a file to be sent and click **Next** button in the Select File to be Sent screen.

6 After a moment, when the Bluetooth Passkey (PIN Code) input window appears on the computer to which the file is transmitted, enter the number you entered in Step 4.

7 After a moment, when the Request FTP File Access Privilege window appears on the computer to which the file is transmitted, click on the window. When the Select Access Permission window appears, click the **OK** button.

Usage Instructions

- Bluetooth devices to be connected must be within a 3m (10 ft.) distance.
- For a better communications environment, there should be no walls or obstacles between the Bluetooth devices.
- You can connect to only one Bluetooth device at a time for a phone connection, data syncing, electronic business card exchange, FAX transmission/reception, sound related functions, and serial port functions.

- Using the network connection or file transmission function, multiple Bluetooth devices can be connected. However, since connecting to multiple devices may slow down the data rate or make the connection unstable, connecting to one device at a time is recommended.
- The Bluetooth function of a Bluetooth PDA, mobile phone, mouse or keyboard may be turned off. To use them in connection with a Samsung computer supporting Bluetooth, you must check if the Bluetooth function of the device to connect to is turned on.

For the procedures on turning on the Bluetooth function of a device, refer to the relevant device manual.

- The services provided by Bluetooth devices may vary depending on their capabilities. For the services provided by the Bluetooth device, refer to the device manual.



Chapter 5.

Using Applications

Introducing Programs	113
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Introducing Programs

Using the software supplied with the Samsung computer, you can easily use functions and troubleshoot problems.

Try to use the software after learning about the basic use of the software. For detailed information, refer to the help section of the corresponding software.



Every software program may not be provided or the version may differ depending on your computer model.

In addition, the screen capture images may differ from actual ones depending on the computer model and software version.



Multi Media Functions

■ CyberLink PowerDVD (, Optional)

Using this program, you can play a DVD title.

The CyberLink PowerDVD program is only supplied when you have purchased an external ODD, and you have to install the program additionally.

☞ p.118

■ Play AVStation (, Optional)

Play AVStation is an integrated multimedia program that enables users to enjoy better quality music, photographs, videos, movies, etc. all with a single program.

☞ p.122

■ Origami Experience (, Optional)

Origami Experience is a program that categorizes programs installed on the computer for easier and more convenient use. ☞ p.116

It is optional and is not supplied with some models.

■ Play Camera (, Optional)

This software enables taking pictures and video recording by using the cameras on the front and back of the computer. ☞ p.138

Management Functions

■ Samsung Update Plus (, Optional)

Samsung Update Plus is a software function that examines and updates the Samsung software and drivers installed on your Samsung computer to the most recent versions. ☞ p.120

■ Easy Network Manager (, Optional)

Easy Network Manager is a program that enables you to easily configure the network settings.


You can configure the network settings for each location and you can also diagnose the network status. ☞ p.102

■ Easy Battery Manager (, Optional)

Easy Battery Manager is a power management program that provides easy-to-use power management and power saving settings so that the battery usage time can be extended. ☞ p.160

Troubleshooting Functions

■ OmniPass (, Fingerprint Identification software, Optional)

OmniPass is fingerprint identification software. You can register your fingerprint and use it by placing your finger on the fingerprint identification sensor instead of using a password. You can turn the computer on, login to Windows and encrypt a file, all using your fingerprint.  p.141

■ SAMSUNG Magic Doctor (, Optional)

SAMSUNG Magic Doctor is troubleshooting software provided by Samsung Computer for system diagnosis, and restoring the system. The system diagnosis function enables users to diagnose system problems without assistance from others.

■ Samsung Recovery Solution II (, Optional)

Using this program, you can restore your computer to its initial status before a problem occurred while using the computer.

Origami Experience (Optional)

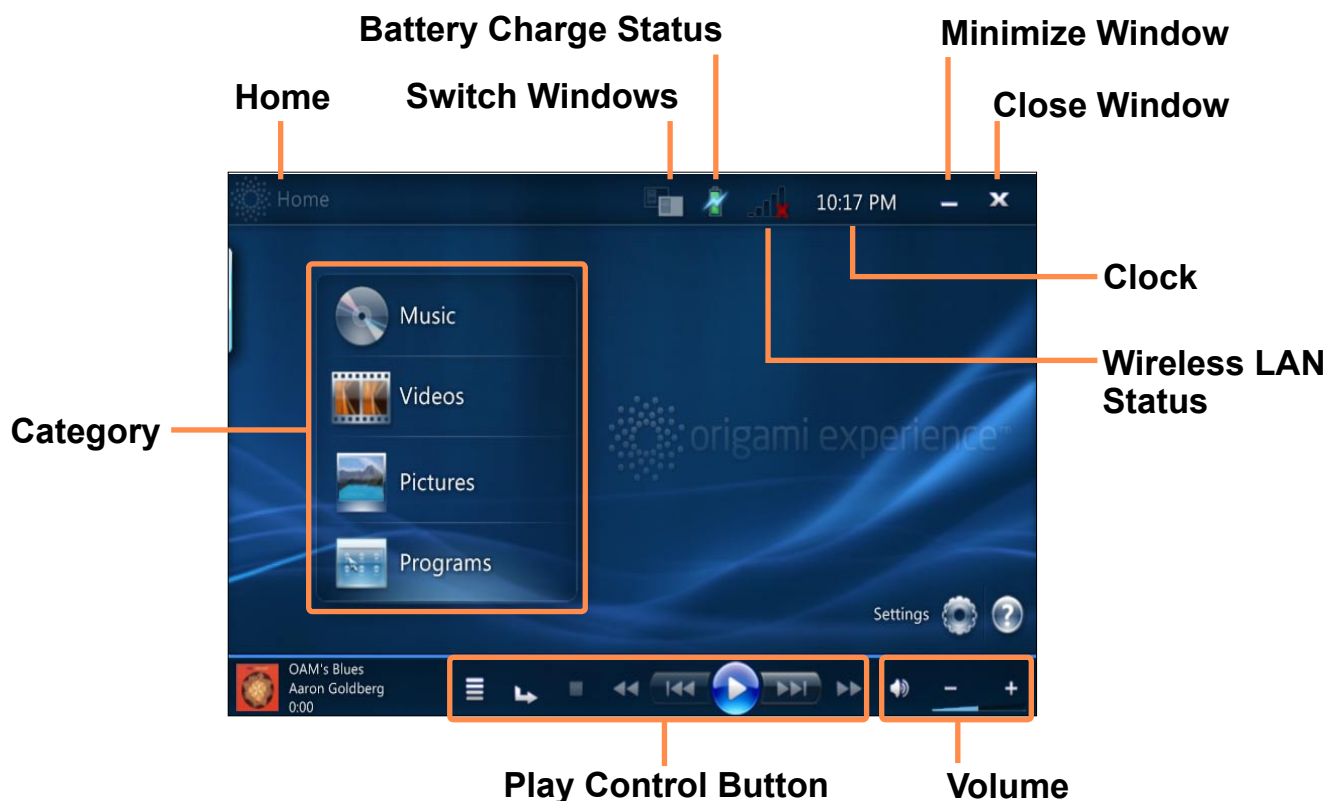
Origami Experience is a program that categorizes programs installed on the computer for easier and more convenient use.



It is optional and is not supplied with some models.

The terms and the screen figures in the manual may differ from actual ones.

To launch Origami Experience, click **Start > All Programs > Microsoft Origami Experience Pack > Origami Experience**.

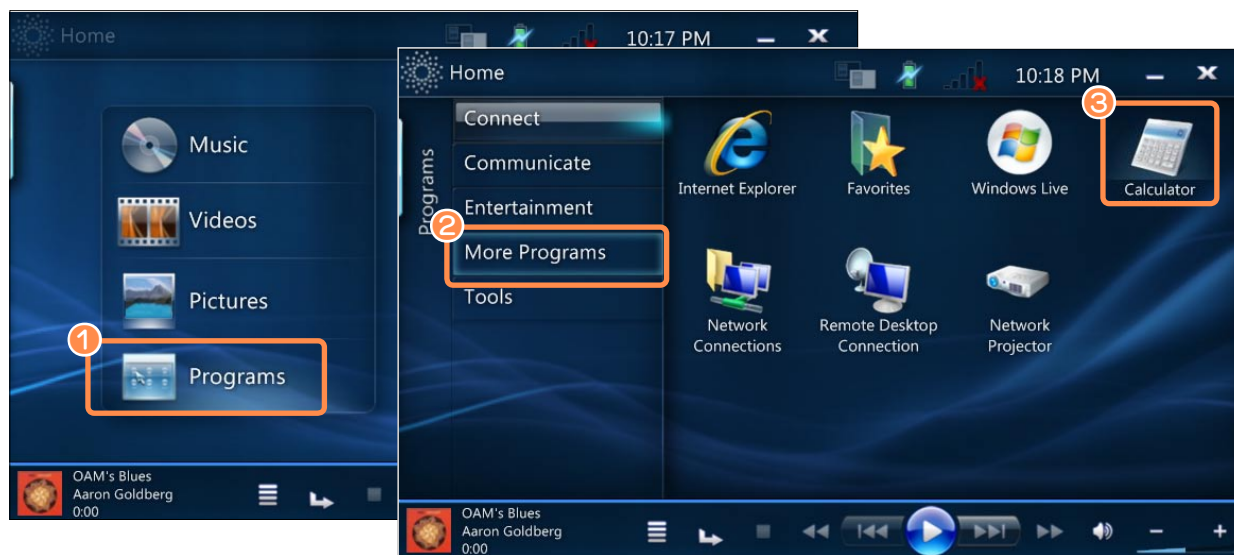




For example, the procedures to launch the **Calculator** are described below.

Launch **Origami Experience**.

Click **Programs > More Programs > Calculator**.



CyberLink PowerDVD (Optional)

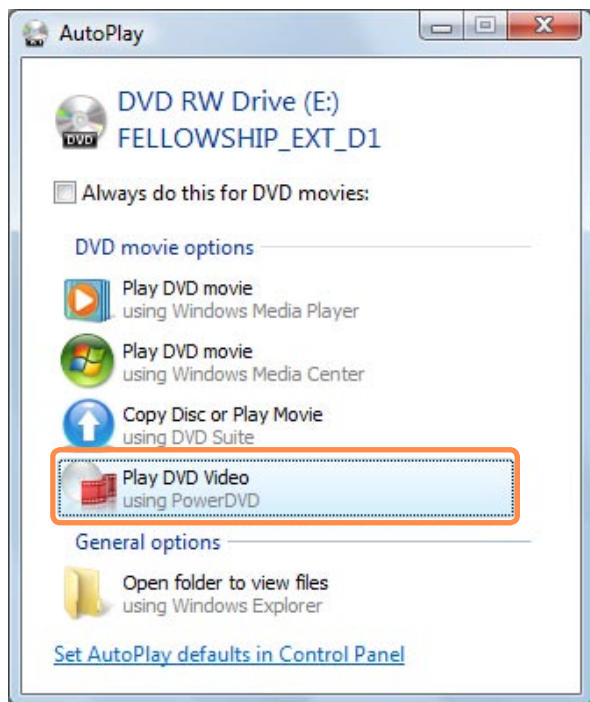
CyberLink PowerDVD is a DVD player program.



The CyberLink PowerDVD program can only be used when you have purchased an CD/DVD drive, and you have installed the program. It is optional and is not supplied with some models.

- 1 Insert a DVD title into the CD/DVD drive.
- 2 Select **PowerDVD** and click the **OK** button.

After a moment, the DVD title will play.



- 3 If the DVD title is not automatically played, click **Start > All Programs > CyberLink DVD Suite > Power DVD > CyberLink PowerDVD**.
- 4 Then click the Play icon in the control panel of CyberLink PowerDVD to play the DVD title.





If you click the **Undock Player Panel** button, the program control panel transforms as follows.



■ Detailed Usage

For more detailed usage, click **Start > All Programs > Cyberlink DVD Suite > Power DVD > PowerDVD Help**.

■ DVD Region Code

A DVD title has a region code according to the international specifications so that it can be played only in that specific region.

DVD titles with a region code will only play on DVD drives and program for playing with the same region code.

A DVD drive is sold with an empty region code and the region code is set when the user inserts a DVD title into the drive for the first time. Whenever a DVD title is inserted with a region code different from that of the DVD drive, the region code of the DVD drive is automatically changed to the region code of the DVD title.

However, changing the region code of a DVD drive is limited to 5 changes. After that, the region code is permanently fixed to the last region code. If you need to change the region code after changing the code 5 times, contact a service center. Although a service center can help you in this case, you will be charged a service fee.

Samsung Update Plus (Optional)

Samsung Update Plus is software that examines and updates the Samsung software and drivers installed on your Samsung computer to the latest version.



- To search for updates and update your computer using Samsung Update Plus, your computer must be connected to the Internet.
- The update search result may differ depending on your computer model.



Samsung Update Plus does not provide updates for applications installed after purchasing the computer.

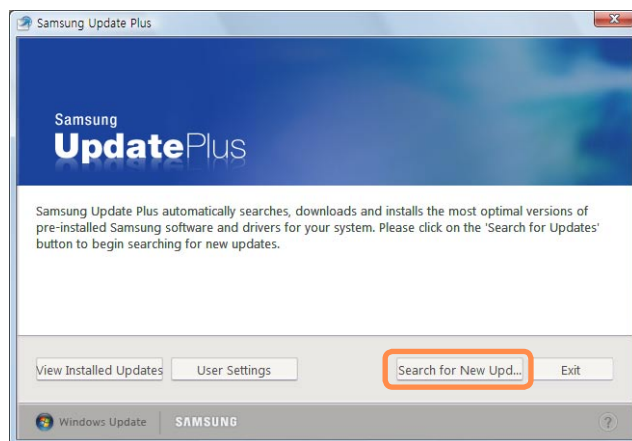
To update the software and drivers

- 1 Click **Start > All Programs > Samsung > Samsung Update Plus > Samsung Update Plus**.

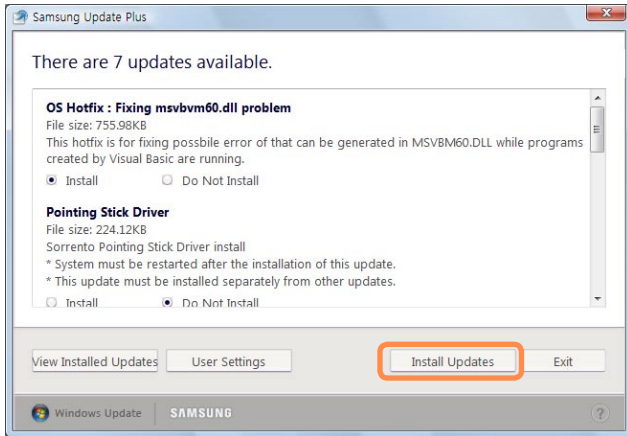


If this is the first time you are running the program, a window will appear asking you if you agree to the agreement in the window. Click Agree to use this software.

- 2 If you click on **Search for new updates**, new updates are searched for.



- 3 If there are available software or driver updates for your computer, the available updates will be listed. Select the required updates from the list and click on **Install Updates** to start the update.



Automatic update items display

By default, your computer is configured to automatically search for updates. If there is a new update available, this is displayed in the notification area. Click the balloon help icon in the notification area. Here you will be able to find the latest available updates.



Updates that must be installed separately.

If you select **Install** for an update item that must be installed separately, a message appears informing you of this. Follow the instruction message to correctly install it.

Play AVStation (Optional)

Play AVStation is an integrated multimedia program that enables users to enjoy music, photographs, video, movies, etc. using a single program.

This section describes the basic usage of Play AVStation.

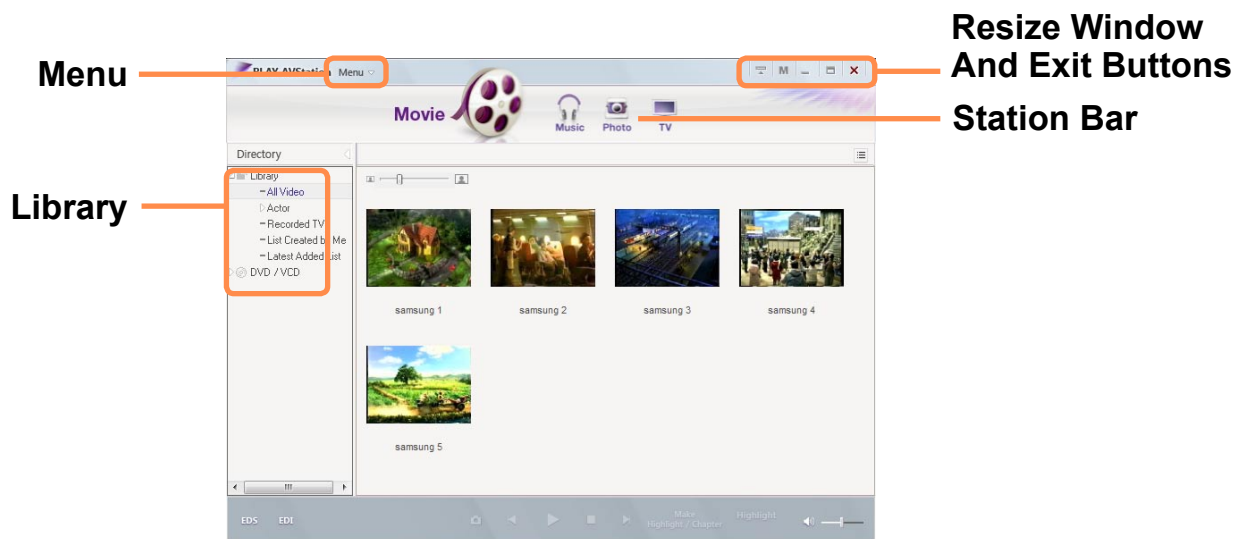


- The screens used in this manual may differ from actual screens according to the program version.
- For detailed usage, refer to the program help.
- TV Station is only available for systems supporting a TV function. This computer is not supported.
- To play an audio CD or DVD, you have to connect an external ODD. Use the description below provided that an external ODD is connected.

Launching and Screen Layouts

To launch the program, click **Start > All Programs > Samsung > Play AVStation > Play AVStation**.

Alternatively, double-click the Play AVStation icon() on the Desktop.



Movie

You can play a video (movie) file or a DVD/VCD title.

Music

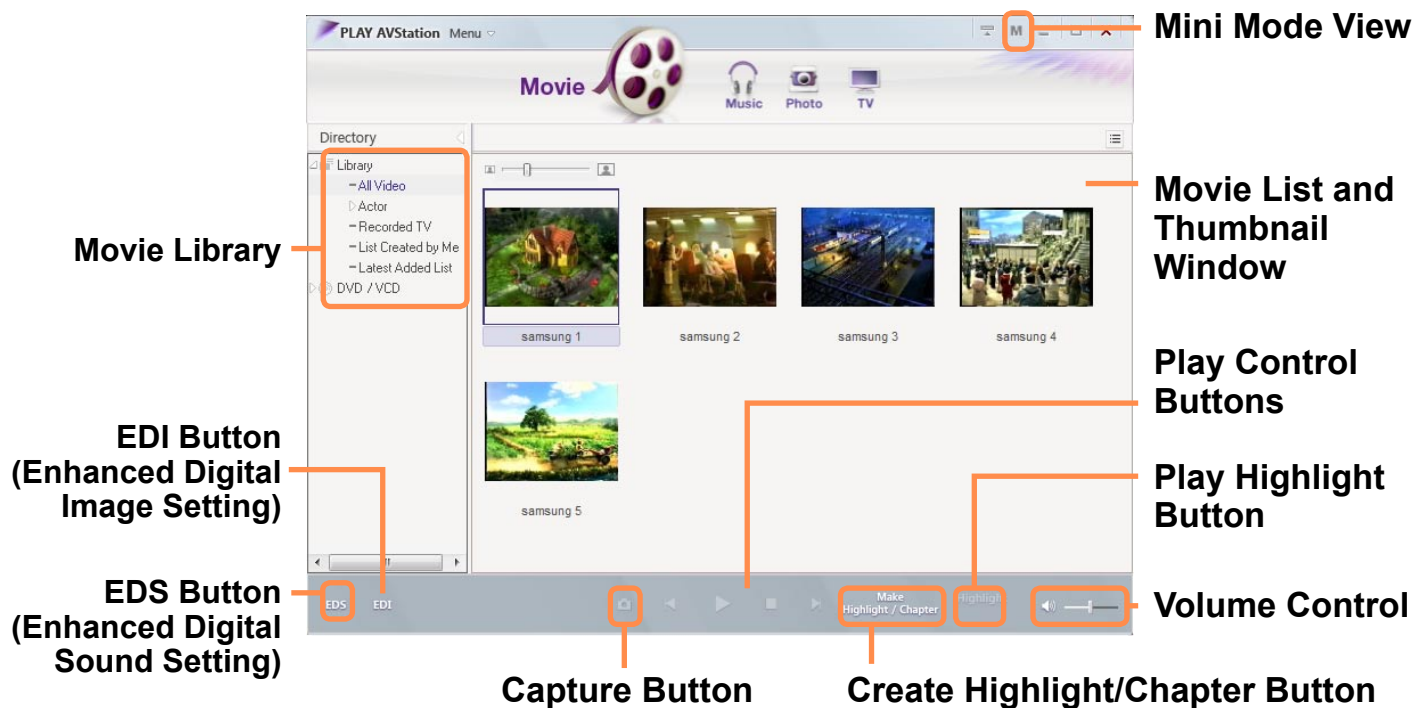
You can play a music file or an audio CD.

Photo

You can view or edit a photograph (image), and also view the photographs in a SlideShow.


Movie Station

Launch Play AVStation and click on **Movie** on the Station Bar.





■ What is EDI (Enhanced Digital Image)?

EDI (Enhanced Digital Image) is a visual quality enhancement technology developed by Samsung Electronics. You can view clearer and sharper images by enabling the EDI function when watching TV or playing a movie on Play AVStation. To enable the EDI function, click the EDI () button at the bottom of the TV or Movie Station.

 Some TV tuner and graphics cards are not supported by EDI.

■ What is EDS (Enhanced Digital Sound)?

EDS (Enhanced Digital Sound) is sound quality enhancement technology developed by Samsung Electronics. You can listen to clearer sound if you enable the EDS function when playing music or movie on Play AVStation.

To enable the EDS function, click the EDS () button at the bottom of Music or Movie Station.

- The EDI and EDS functions are not provided for some models.

Playing a Movie File

The procedures to play a movie file registered to the MOVIE Library are described below.

For the procedures to register files to the Library, refer to  p.126.

1 Move to **Movie Station** and double-click **All Video** in the left menu pane.

2 Double-click a movie file.
The file is played.




■ Playing a Video File not Registered to the Library

Click **Menu > File > Open File**, select a movie file to be played and click **Open**.
The selected file is automatically registered to the Library and played.

■ Playing a Video File in Full Screen

1. Double-click on the current playback screen.
2. The movie is played in full screen.
In full screen, to view the movie at the default size, double-click on the current playback screen again.

■ Capturing the Video Screen

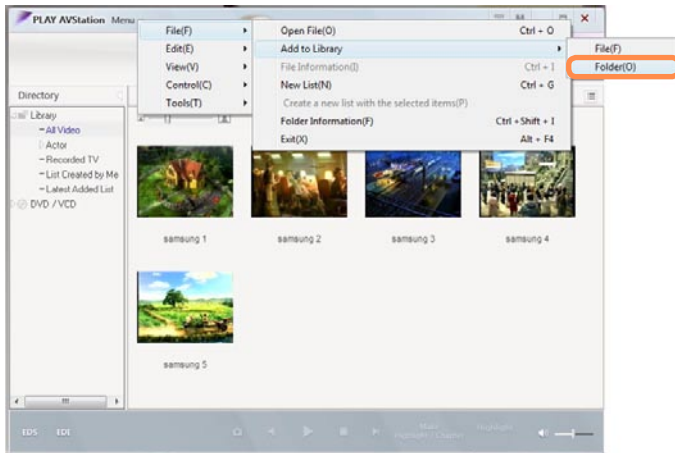
Click on **Capture Current Screen** () below the You can view captured images in the **Photo Station > Captured Images** folder. Captured images are saved in **C:\Samsung\Play AVStation\Data\Capture**. You can change the captured image folder by selecting **Menu > Tools > Options > Capture**.

Adding Videos to the Library

The Movie Library is a library with movie files to be used by Movie Station. The procedures to add movie files saved on the computer to the Library are described below.

You can add files or folders. As an example, the procedures to add folders are described below.

- 1 Select **Menu > File > Add to Library > Folder**.



- 2 Select a target folder and select **Video Files** option in the **Target File Type** field.
- 3 The movie files found in the selected folder are added to the Library.



The movie files used in Play AVStation are automatically added to the Library.

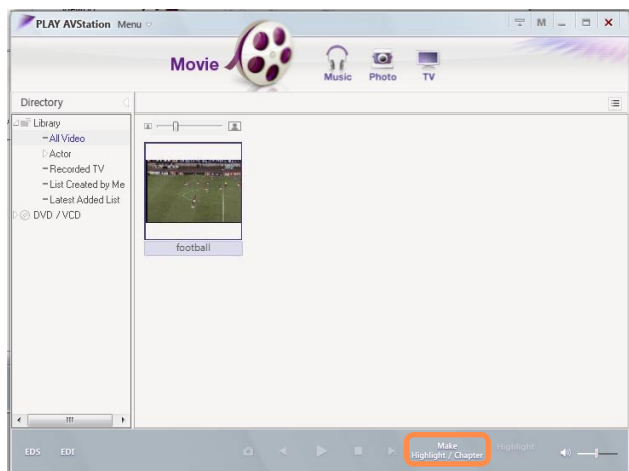
Highlight / Chapter Function

Using the Highlight function, you can watch a highlighted part of a movie such as a sports or news item, etc. Using the Chapter function, you can create chapters for a movie and play the movie from any of the chapters.



The Highlight/Chapter function works on the basis of specific standards depending on the target video. Therefore, the result of the function may differ from the user's intention.

- 1 Select a movie and click **Make Highlight/Chapter** at the bottom of the window.



- 2 Select the movie type (Sports, News, Other).

A Highlight / Chapter is created.

- 3 To watch a highlight, double-click a file made and click the **Highlight** icon at the bottom right of the current movie file.



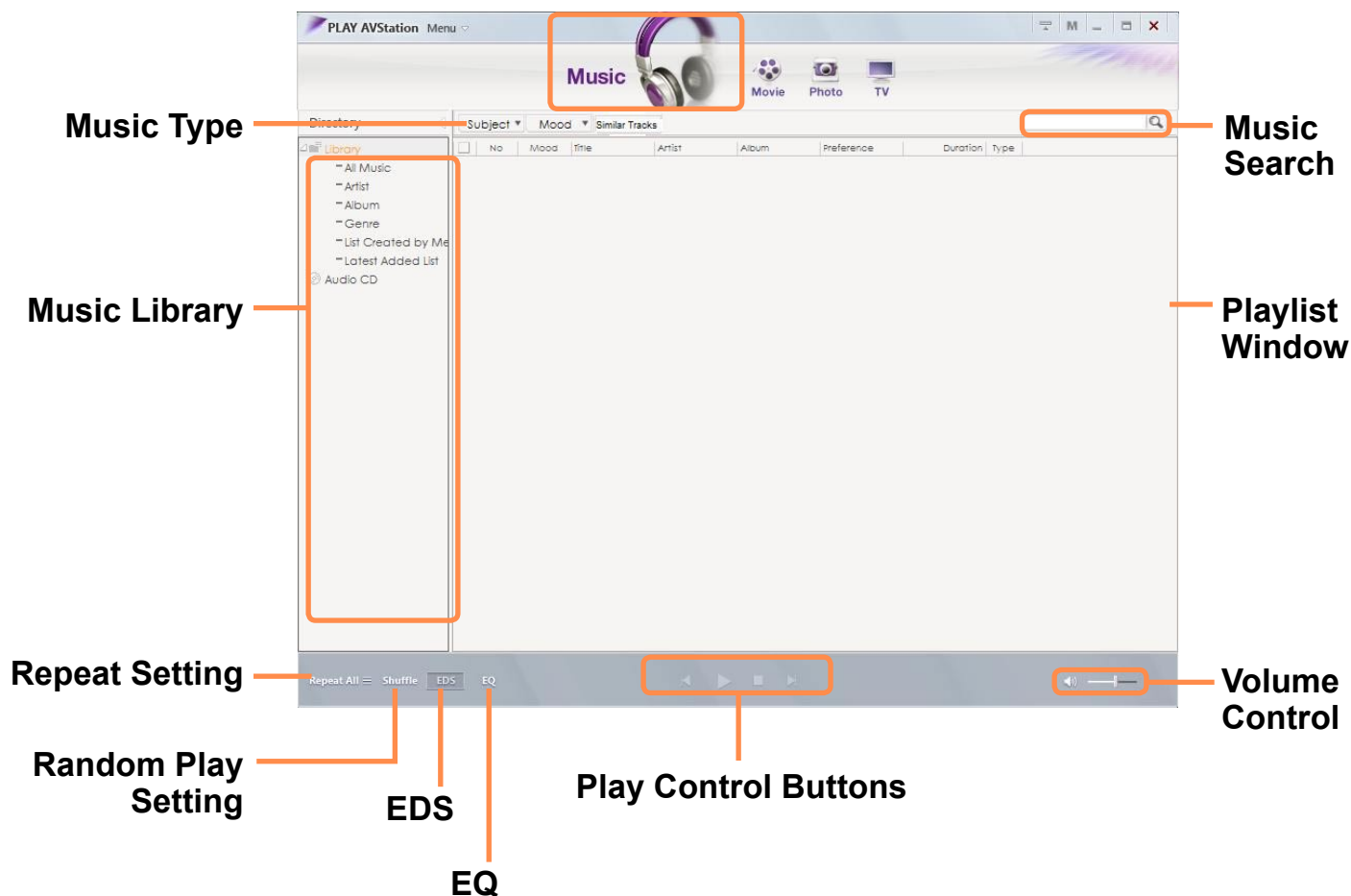
Chapters

Highlight On/Off

- 4 The highlight is played. If you click on a Chapter thumbnail, the corresponding Chapter is played.

Music Station

Launch Play AVStation and click **Music** on the Station Bar.



Playing an Audio CD

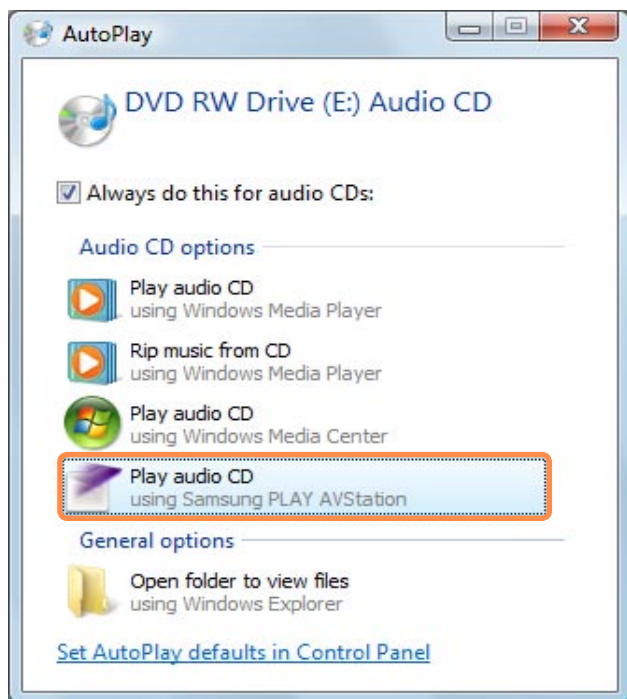
The procedures to play an audio CD are described below.



To use it, you need to connect an external-type ODD.

1 Insert an audio CD into the CD/DVD drive.

2 If the AutoPlay window appears, select **Play audio CD using Samsung PLAY AVStation**.



3 The CD is played.



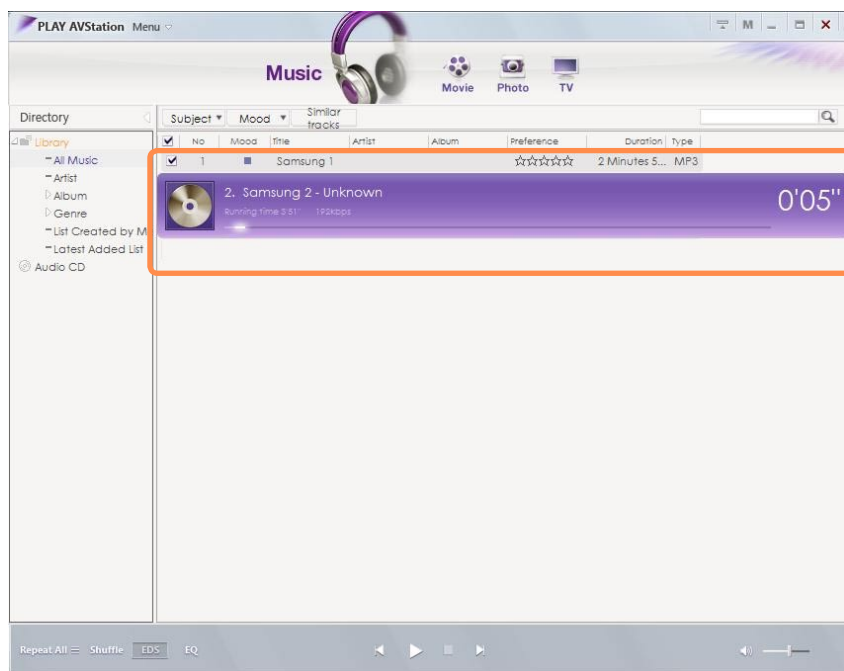
If a CD is already inserted in the CD/DVD drive, select **CD** in the **Audio CD** folder of the Library and double-click the title. The CD is played.

Playing a Music File

If a music file is registered to the Music Library, you can easily play the music file. For the procedures to register tracks to the Library, refer to ㉟ p.131.

1 Move to **Music Station** and double-click on **All Music**.

2 Double-click a music file.
The file is added to the playlist and played.



Playing a Track not registered to the Library

Click **Menu > File > Open File**, select a music file to be played and click Open. The selected track is registered to the Library and played.

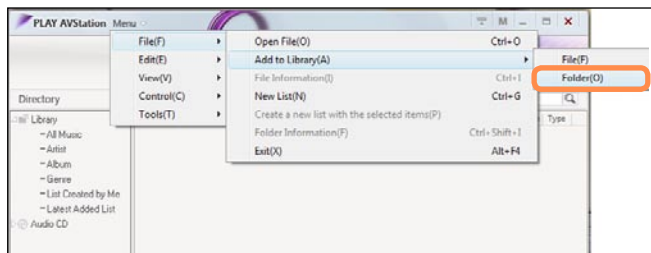
Adding Music Files to the Library

The Music Library is a library with music files used by Music Station. The procedures to add music files saved on the computer to the Library are described below.

You can add files, folders.

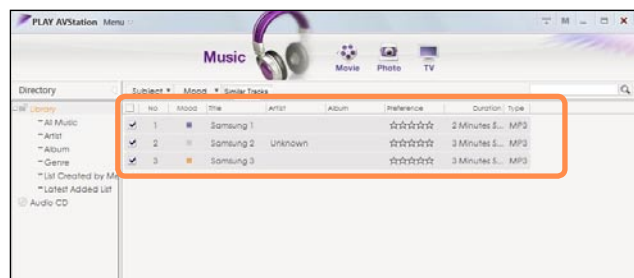
As an example, the procedures to add a folder are described below.

- 1 Select **Menu > File > Add to Library > Folder**.



- 2 Select a target folder and select the Audio File option in the **Target File Type**.

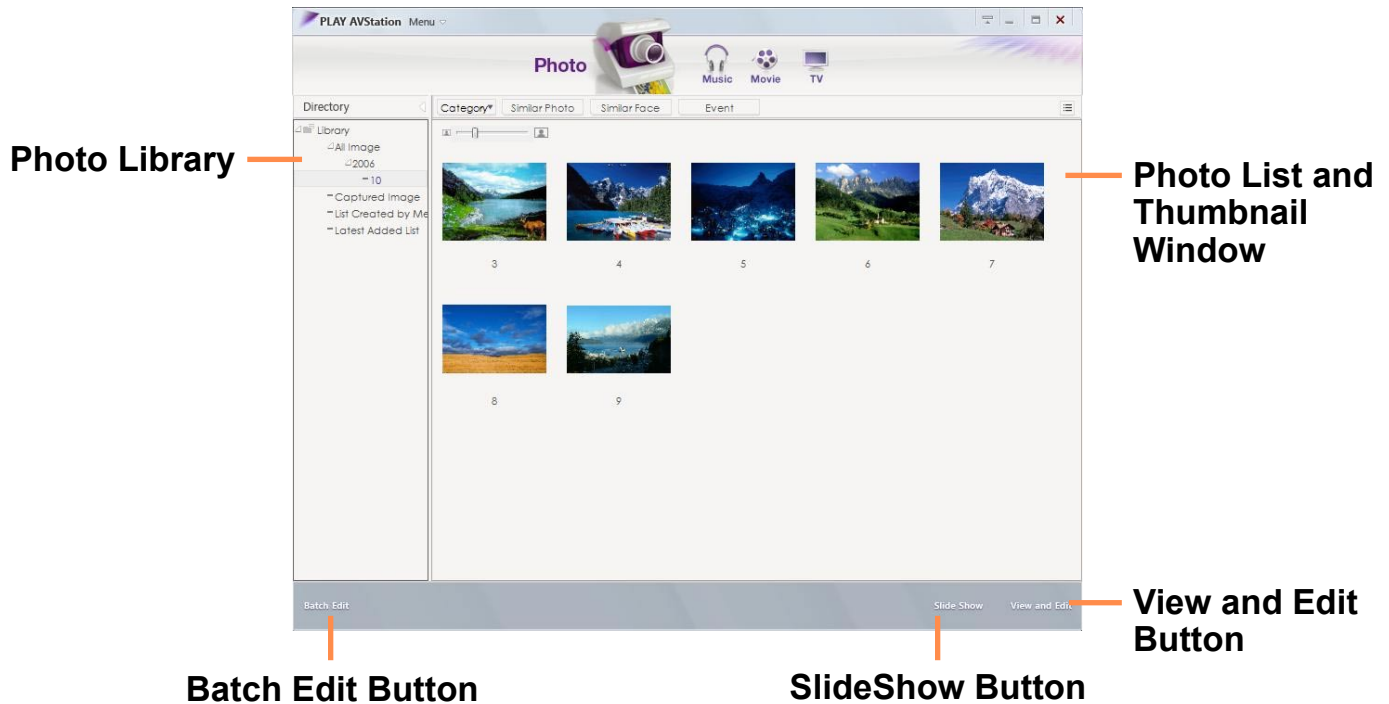
- 3 The music files found in the selected folder are added to the Library. The music files are registered.



The tracks played in Play AVStation are automatically added to the Library.


Photo Station

Launch Play AVStation and click on **Photo** on the Station Bar.



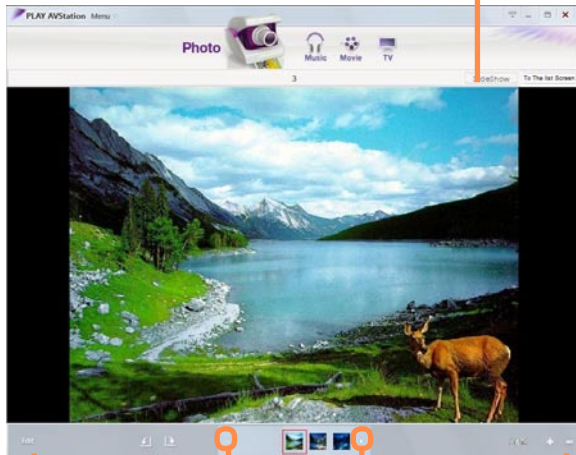
Viewing an Image

The procedures to view images registered to the Photo Library individually and via a SlideShow are described below.

For the procedures to register image files to the Library, refer to  p.135.

- 1 Move to **Photo Station** and double-click on **All Images**.
- 2 Double-click on an image. The selected image is displayed in the Preview screen. Press the left and right arrow keys to navigate through the images.

Slide Show



Edit Image

Left and Right
Arrows

Zoom
Control

- 3 Click on **To The list Screen** to return to the list.



■ Viewing an image not registered to the Library

Click **Menu > File > Open File**, select an image file to view, and click **Open**.

The selected image file is registered to the Library and displayed in the Preview window.

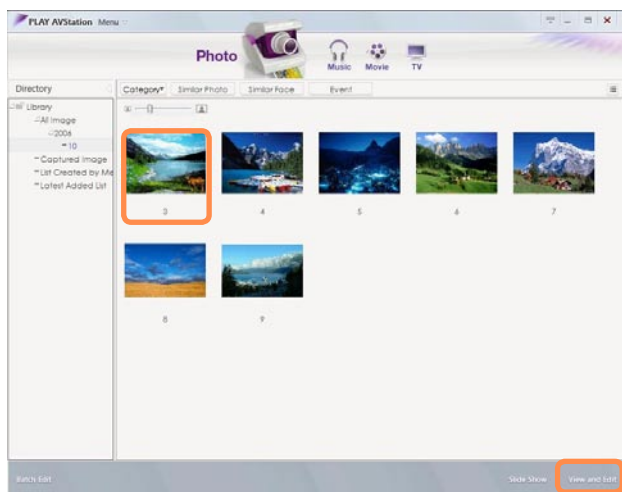
■ Viewing images using the SlideShow function

Click the **SlideShow** button at the bottom of the Photo Station.

Editing an Image

You can shape, edit, or apply special effects to an image. The image editing functions are described below.

- 1 Move to **Photo Station** and double-click on **All Images**.
- 2 Click on a folder which includes images, and the images in the folder are displayed.
- 3 Double-click on an image or click the **View and Edit** button at the bottom right to switch to the Preview screen.



- 4 If the Preview screen appears, click the **Edit** button at the bottom left. If the image editor screen appears, edit the image using the Edit tools at the bottom of the window.

Click to save the edited image

Click to switch to the Preview screen

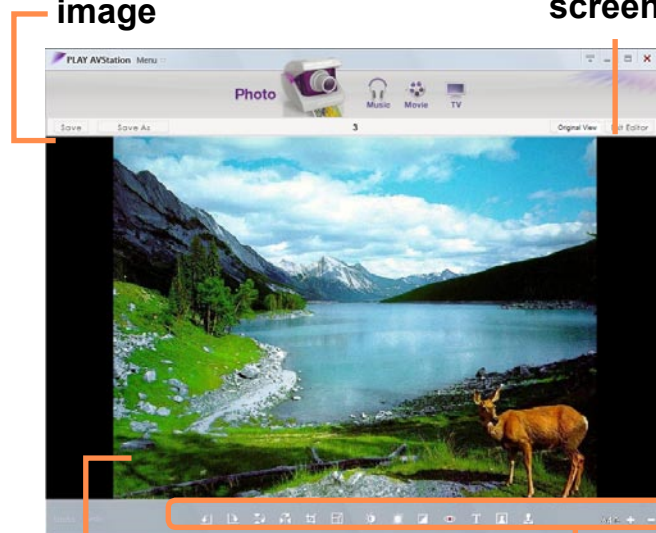


Image Editor Window

Edit Tools



Click on Original View to edit the image comparing it to the original.

- 5 You can save an edited image by clicking the **Save** or **Save As** button.
- 6 Click the **Exit Editor** button to return to the Preview screen.

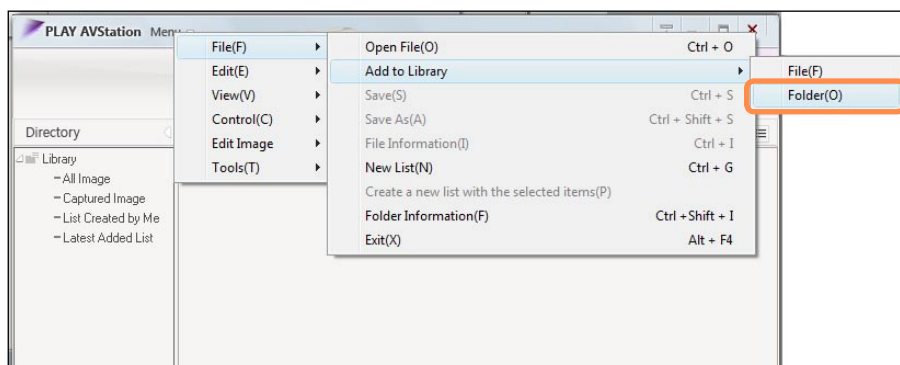
Adding Images to the Library

The Photo Library is a library with image files to be used by Photo Station. The procedures to add image files saved on the computer to the Library are described below.

You can add files and folders.

As an example, the procedures to add folders are described below.

1 Select **Menu > File > Add to Library > Folder**.



2 Select a target folder and select the Image File option in the **Target File Type** field. The image files found in the selected folder are added to the Library.




The image files used in AVStation are automatically added to the Library.

AVStation Now (Optional)

Using AVStation Now, you can easily and quickly play music, photographs, movies and DVDs when the computer is on/off.

Start


When the computer is on or off, press the **AV** button (.

The AVStation Now program is launched.



If the **HOLD switch** on the left side of the computer is slid upwards all buttons of the computer are locked and do not work. If AVStation Now is not launched, check the position of the **HOLD switch**.

Exit

Move the mouse pointer to the top of the screen and click the **Exit** () button to exit AVStation Now.

Screen Layout

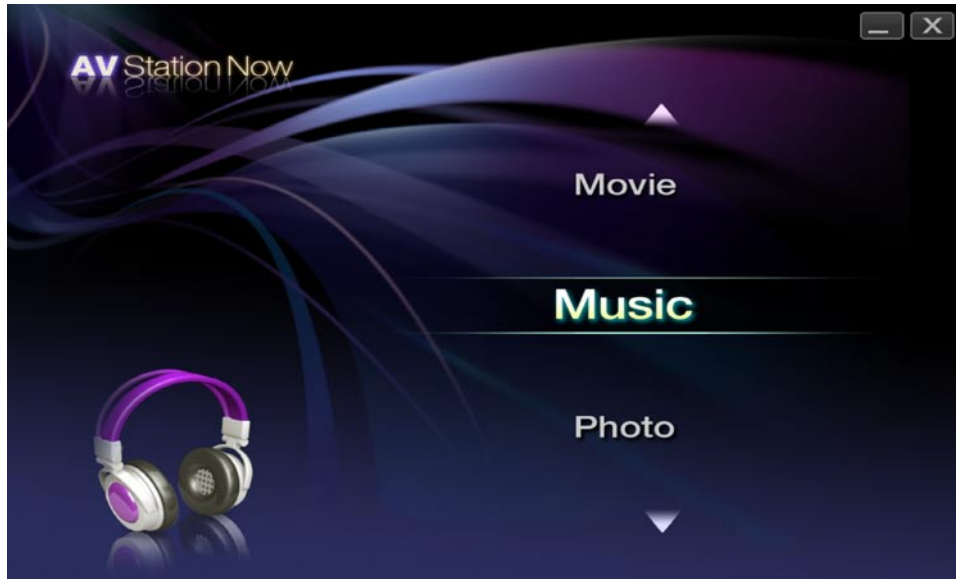
Each menu of AVStation Now is linked to a multimedia program so that you can use the corresponding function.

Click on a menu to run the corresponding program.

For more detailed usage of each program, refer to the online help of each program.



- AVStation Now menus may differ depending on your computer model and some functions are optional and may not be supported by your computer. In addition, if a required program is removed or not installed, the corresponding menu will not appear.
- TV Station is only available for systems supporting the TV function.
- The screens used in this manual may differ from actual screens according to the program version.



Music: Play AVStation is launched and you can play a music file or audio CD.

Movie: Play AVStation is launched and you can play a movie or DVD title.

Photo: Play AVStation is launched and you can view photographs or image files individually or in a SlideShow.

Play Camera (Optional)

This computer provides an optional dual camera on the front and back so that users can take pictures or record video.

If your computer model is equipped with the dual camera, you can take pictures or record video using the Play Camera software.



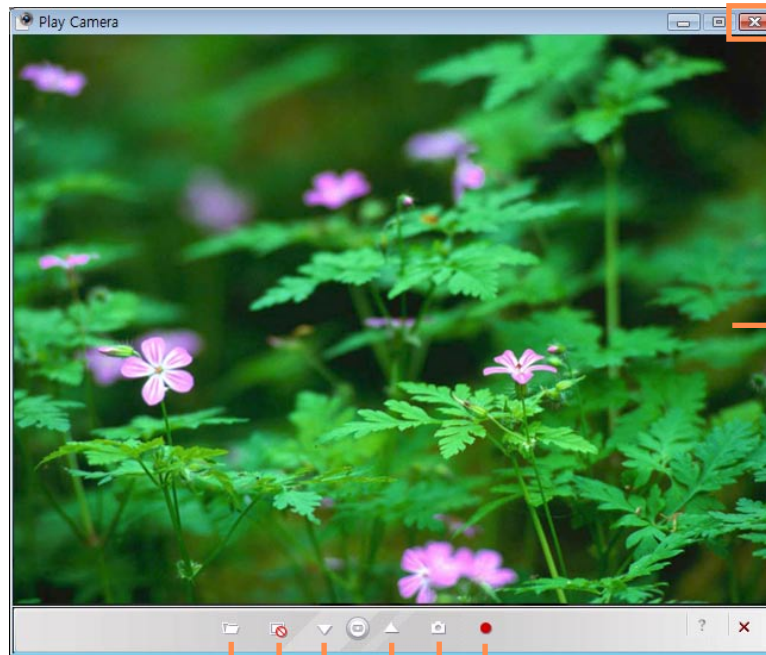
- This function is applied to some models only.
- The program version number in this manual is subject to change and the screen figures and terminologies may differ from the actual ones.
- For more detailed usage procedures, refer to the program Help.

Precautions when Taking a Picture

- Do not take a picture or record video of a person without that person's consent.
- Do not take a picture or record video where photographing is prohibited.
- Do not take a picture or record video where you may violate another person's privacy.

Photographing Procedures 1.

- 1 Select **Start > All Programs > Samsung > Play Camera > Play Camera**.



Close the Window

Preview Window

Open Folder: Opens the folder which includes photos or videos.

Record: Records video.

Capture Screen (Still Picture): Takes a picture.

Preview Window: Shows or hides the Preview window.

Rear Camera: Select to use the rear camera.

Front Camera: Select to use the front camera.

- 2** Press the **Front Camera** (▼) or **Rear Camera** (▲) button, focus on an object and press the **Capture Screen** (📷) button. To record video, press the **Record** (●) button.



To stop a video recording, press the **Stop** (■) button. Recording will stop.

- 3** Press the **Open Folder** (📁) button to view pictures or recorded videos.
- You can view a photo by double-clicking it.
 - Since you cannot view recorded video files using the Play Camera, please use another video player (e.g. Windows Media Player, Cyberlink PowerDVD, etc.) to view video files.

Photographing Procedures 2.

- 1 When the computer is on, press the **SHUTTER** button at the top.



- 2 When the Play Camera program is launched, press the **Shutter** button again. A picture will be taken.
To switch the active camera to the rear or front camera, press the **Front Camera** (▼) or **Rear Camera** (▲) in the Play Camera screen and press the **Shutter** button.
To record video, click the Record (●) button of the Play Camera program.
- 3 Press the **Open Folder** (📁) button to view pictures and recorded videos.

- In the Preview window, right-click to configure the camera settings, the resolution and device settings, the save folder, etc.
- The Play Camera supports up to 1280 x 1024 pixels. Photographs are taken with the resolution selected but the photographs displayed on screen are only 640 x 480 pixels due to restrictions of the screen size.

- Video files recorded by the Play Camera are saved with a 320 x 240 pixels resolution.
- Since you cannot view recorded video files using the Play Camera, please use another video player (e.g. Windows Media Player, Cyberlink PowerDVD, etc.) to view video files.
- Switch front/rear camera by Play Camera program while you are video chatting through any other program. You can not preview images, take pictures, or record video with Play Camera when you are using other program.
You can not take pictures while you are video chatting.

OmniPass (Fingerprint Identification software, Optional)

(Fingerprint Identification, Integrated Password Authentication)

Using the OmniPass program, you can use the following functions.

Fingerprint Identification Function

You can register your fingerprint and use it instead of a password.

Integrated Password Authentication Function

You can use your Windows user account information using the Integrated Password Authentication Function.

If you register your Windows user account(s) information with the OmniPass program, you can login to Windows or onto websites using a single password.



- This function is applied to some models only.
- The program version described in this manual is subject to change and some functions may not be provided due to restrictions in the program.
- This model does not support the function which turns the computer on via a fingerprint.

For more detailed information on the usage procedures, refer to the Help section in the OmniPass program(Fingerprint Identification, Integrated Password Authentication).

Signing Up

You have to register your fingerprint and Windows user account information as follows to use the fingerprint identification and integrated password authentication functions.



When using the fingerprint identification sensor

Keep your finger clean and dry when touching the sensor.

Place your finger over the fingerprint sensor and push gently down.

1

Select **Start** () > **All Programs** > **Softex** > **OmniPass Control Center**.
Turn the computer on and click the **Start** button in the **Omnipass** window.

- 2 Click **Run Enrollment Wizard** to start the registration.



- 3 For the integrated password authentication step, complete the following.

Enter the Windows user ID and logon password and click the **Next** button.

If you do not enter a logon password, the integrated password authentication function will be permitted to anyone; it is therefore recommended entering a logon password.



Creating a user logon password.

① Select **Start > Control Panel > User Accounts > Create password for user account.**

② Enter a password in the New Password field, and re-enter the password in the Confirm New Password field. Click **Create Password**. A password has been created.

- 4 To register a fingerprint, click on **AuthenTec Fingerprint Device** and then click the **Next** button.

- 5 The fingerprint registration begins. Select the finger to be registered and click the **Next** button.

- 6 Register the fingerprint by placing your finger over the fingerprint identification sensor and placing it down slowly. Repeat this at least 3 times until the next screen appears automatically.

- 7 Place the registered finger over the fingerprint identification sensor again and click the **Next** button.

- 8 A window appears asking if you want to register an additional fingerprint. Click **No** to proceed to the next window. If you click **Yes**, Steps 4~7 are repeated.

- 9 Proceed with the settings and click the **Next** button.

- 10** When the user profile backup instruction window appears, read the contents and click on **Current Backup**. Specify a path to save the user profile to and save the name. When the backup file password window appears, enter a password and click the **OK** button.



What is a user profile backup?

This is a function for backing up the OmniPass information (fingerprint and user account information) registered on a computer so that the information can be used on another computer. For information on how to use a backed up user profile on another computer, refer to the Help section.

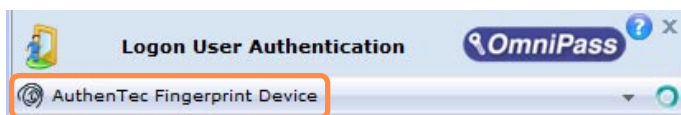
- 11** Click **Finish**. Registering information for using the fingerprint identification and integrated password authentication functions has been completed.

Logging onto Windows

- 1** If you turn the computer on after completing the user information registration step, the Logon Authentication window appears.

(To use the fingerprint identification function)

In the **Logon Authentication** window, select **AuthenTec Fingerprint Driver**, place your finger over the fingerprint identification sensor and place it down slowly.



If your fingerprint is not recognized, the fingerprint is displayed in red in the fingerprint display window. In this case, place your finger over the fingerprint identification sensor again and push it down slowly until the fingerprint is displayed in green.

(To use the integrated password authentication function)

In the **Logon Authentication** window, select **Integrated Password Authentication**. Enter the username and the login password and click the **OK** button.



User Name:

Domain:

Password:

Identity:

OK

User Name: User account name

Password : User account password

Domain, ID: These fields are automatically entered.

- 2** When the fingerprint identification or password authentication is complete, you can logon to Windows.

Encrypting/Decrypting Files

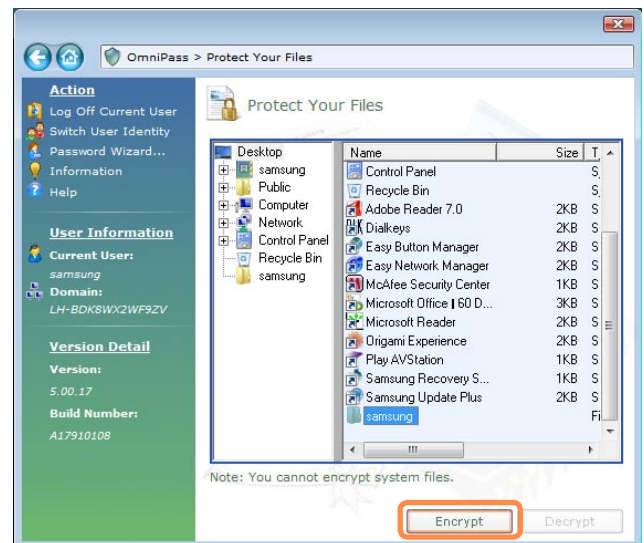
You can encrypt folders and files so that only specified users can open or modify them.

The procedures to encrypt files are described below.



This function is applied to some models only.

- 1** Select **Start (Windows logo) > All Programs > Softex > OmniPass Control Center > File Protection**.
- 2** Select a folder or file to be encrypted and click **Encrypt**.



To decrypt encrypted folders and files

The procedures are the same as those for the encryption process except for selecting **Decrypt** instead of **Encrypt** in the figure above.

- 3 When the file encryption authentication window appears, select **AuthenTec Fingerprint Driver**, place your finger over the fingerprint identification sensor and push it down slowly. Alternatively, select Integrated Password Authentication and enter the login password.



If your fingerprint is not recognized, the fingerprint is displayed in red in the fingerprint display window. In this case, place your finger over the fingerprint identification sensor again and push it down slowly until the fingerprint is displayed in green.

- 4 If the fingerprint is recognized, the following window appears. Click OK to **encrypt** the file.



Right-click over a folder or file to be encrypted and select **OmniPass Encrypt File(s)** from the pop-up menu. The selected folder or file will be encrypted.

Logging into Internet Sites

You can easily login to frequently used Internet sites using the fingerprint identification or password authentication functions instead of entering your user ID and password.

As an example, the procedures for logging into the Hotmail site are described below.

The following describes the procedures for registering your user ID and password. Once the user ID and password of a site are registered, you can login to the site automatically.



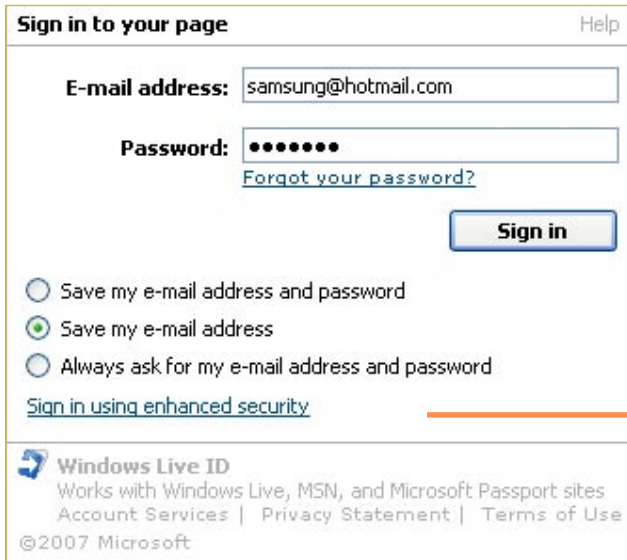
- This function is applied to some models only.
- This function may not be supported for some Internet sites.

- 1 Launch Internet Explorer (🌐) and open the Hotmail site. (<http://www.hotmail.com>)

Enter your user ID and password.

- 2 Right-click over the (🔑) icon in the Taskbar and click on **Save Password**.

- 3 When the mouse pointer changes to a yellow key icon (🔑), click the login window, but not the Sign in button. If you wait a moment, the mail address and password information are retrieved.



Sign in to your page Help


E-mail address: samsung@hotmail.com

Password: ••••••••
[Forgot your password?](#)

Sign in

☐ Save my e-mail address and password
☒ Save my e-mail address
☐ Always ask for my e-mail address and password

[Sign in using enhanced security](#)

 **Windows Live ID**
Works with Windows Live, MSN, and Microsoft Passport sites
Account Services | Privacy Statement | Terms of Use
©2007 Microsoft

- 2 Select **AuthenTec Fingerprint Device**, place your finger over the fingerprint identification sensor and push it down slowly once. Alternatively, select Integrated Password Authentication and enter the login password.

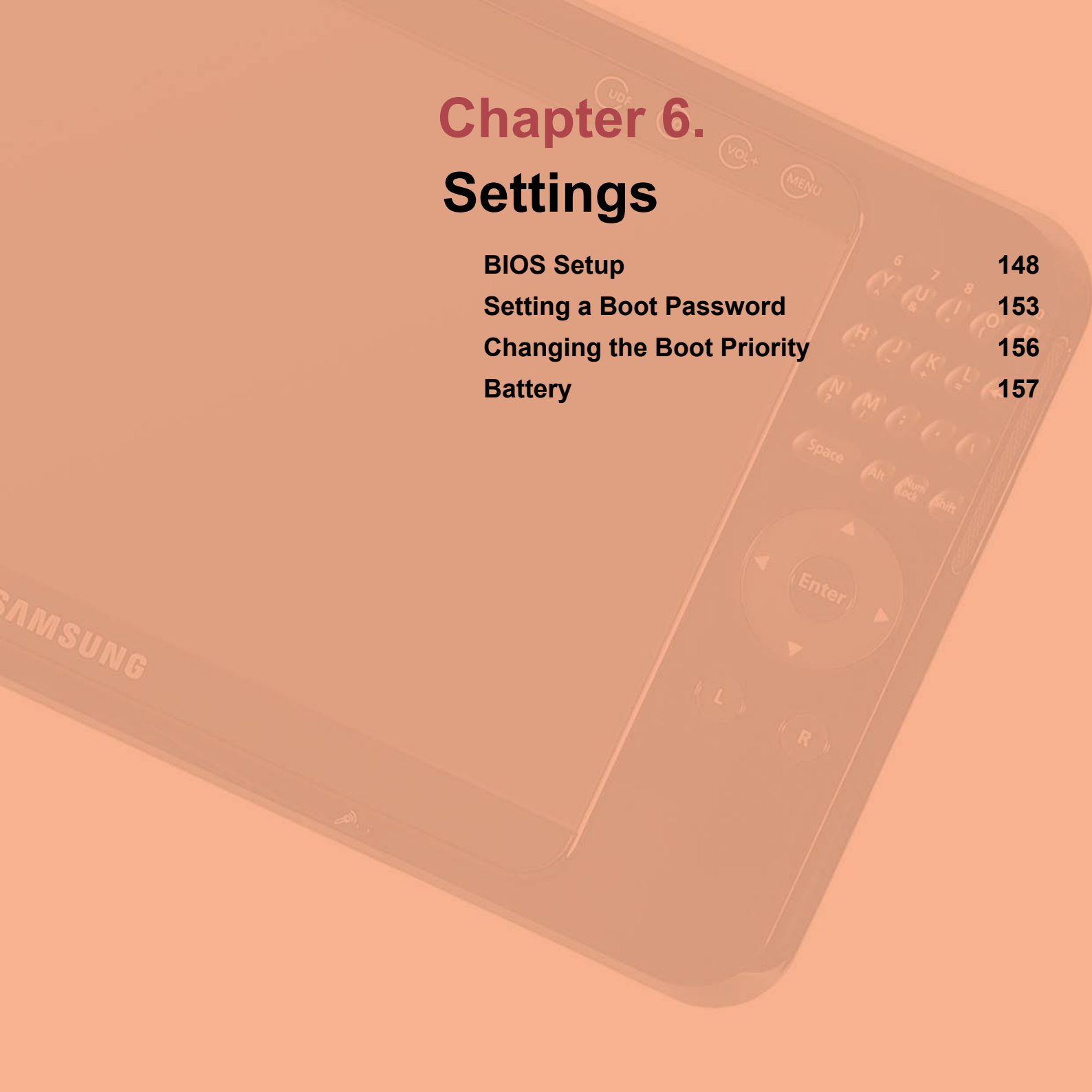
- 3 If the fingerprint identification or password authentication is complete, your ID and password are automatically entered and you are logged into the website.

Login Window

- 4 Enter an easy to remember name and click **Finish**.

- 5 Thereafter you can login to your registered websites using your fingerprint or password.

- 1 When opening a registered site, the **Access Authentication** window appears.



Chapter 6.

Settings

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BIOS Setup

The BIOS Setup enables you to configure your computer hardware according to your needs.



- Use the BIOS setup to define a boot password, change the booting priority, or add a new device.

Since incorrect settings may cause your system to malfunction or crash, take care when configuring the BIOS.

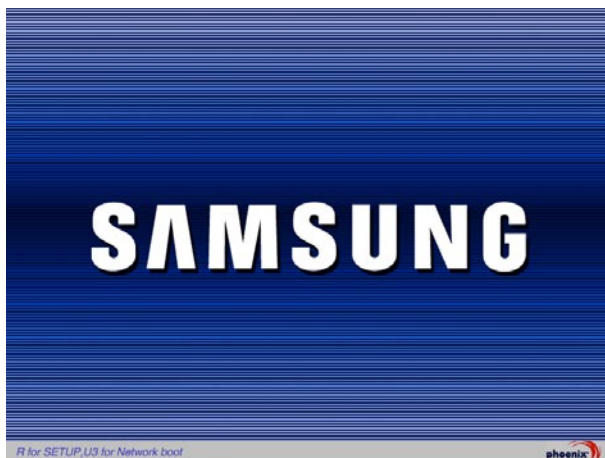
- The functions of the BIOS setup are subject to change for product function enhancement purposes.



The BIOS Setup menus and items may differ depending on your computer model.

Entering the BIOS Setup

- 1 Slide the **Power Switch** down. The computer is turned on.
- 2 The booting screen (SAMSUNG logo) appears. Press the **R button** (R) on the right side of the computer. When an external keyboard is connected, press the **F2** key.



- 3 After a moment, the BIOS setup screen appears.
The items in the BIOS setup may differ depending on the product.

Setup Menu

PhoenixBIOS Setup Utility

MainAdvancedSecurityBootExit

System Time[10:21:53]

System Date[03/01/200x]

Hard Disk Drivexxxxxx

CPU TypeIntel (R) xxxx M

CPU Speedx.xx GHz

Total Memoryxxx MB

Graphics Memory[Auto : Shared]

BIOS Versionxxxxxxxx

MICOM Versionxxxxxxxx

Item Specific Help

<Tab>, <Shift-Tab>, or<Enter> selects field.

F1 Help

↑↓ Select Item

▼ (F5)/▲ (F6) Change Values

F9 Setup Defaults

◀ (Esc) Exit

↔ Select Menu

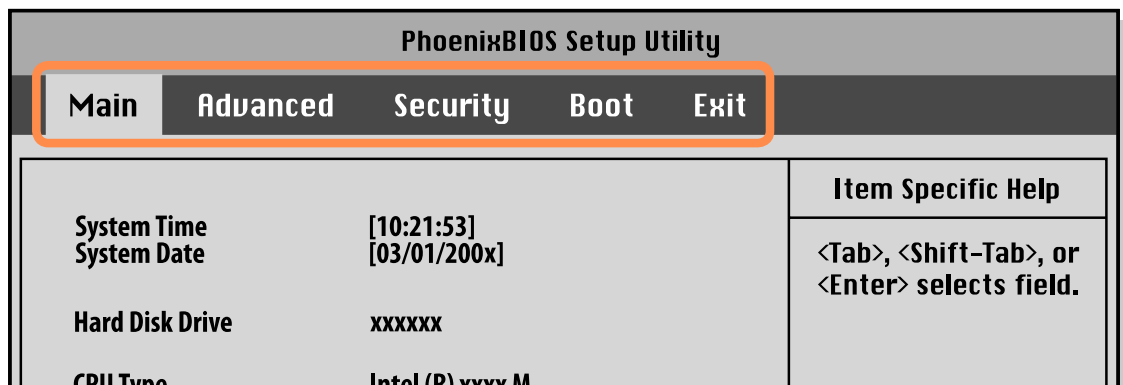
Enter SelectSubMenu

F10 Save and Exit

Help
Help for the selected item appears automatically.

Setup Items

The BIOS Setup Screen



Menu	Description
Main	Used to change the basic system and environment settings.
Advanced	Used to configure advanced functions on your computer around devices and chipsets.
Security	Used to configure security functions, including passwords.
Boot	Used to set the boot priority and other boot options
Exit	Used to exit the Setup either saving the changes or not.

System Setup Buttons (Keys)

The following Buttons(keys) are used in System Setup.



When an external keyboard is connected, you can use the key enclosed in parentheses. For example, press the **F1** key on the external keyboard instead of the **L** button.

Setup Key	Button	Function
L Button (F1 Key)		If you press the L button, Help appears. If you press it again, Help disappears.
Mouse/ Joystick Up & Down (↑ ↓ Keys)		If you push the Mouse/Joystick up or down, you can move up or down the item list.
Mouse/ Joystick Left & Right (← → Keys)		If you push the Mouse/Joystick left or right, you can move to another menu.
▼ (F5 Key) / ▲ (F6 Key)		Press the ▼ (F5) / ▲ (F6) buttons to change the value of an item.
◀ (Esc Key)		Press the ◀ button to return to a higher-level menu or to move to the Exit menu.

**Enter Button
(Enter Key)**



Selects an item or opens a submenu.

(F9 Key)

To initialize the setup settings, press the **F9** key on the external keyboard.

If an external keyboard is not connected, select **Exit > Load Setup Default** from the setup menu.

(F10 Key)

To save the changes press the **F10** key on the external keyboard.

If an external keyboard is not connected, select **Exit > Exit Saving Changes** from the setup menu.



Exiting the System Setup

1. Move to **Exit Menu > Exit Saving Changes** by using the **Mouse/Joystick** and press the **Enter** button.
2. Select **Yes** and press the **Enter** button. The System Setup is closed and Windows is started.

Setting a Boot Password

When setting a password, you have to enter a password to use the computer or enter the BIOS Setup.

By configuring a password, you can restrict system access to authorized users only and protect data and files saved on the computer.



Do not lose or forget your password.
If you have forgotten your password, contact a Samsung service center. In this case, a service fee will be charged.
For the setup buttons, refer to the description of 'System Setup Buttons (Keys)'.
p151

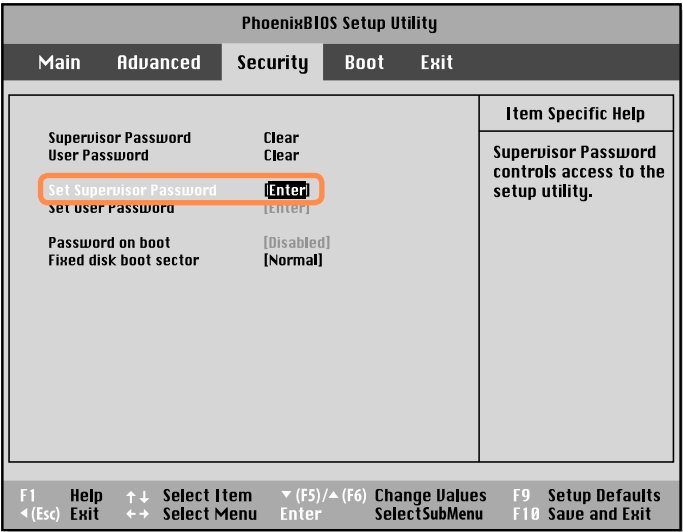
Setting a Supervisor Password

A Supervisor Password is required to turn the computer on or to start the System Setup.

When setting a Supervisor Password, users other than a supervisor cannot use the computer.

2 In the **Set Supervisor Password** item, press <Enter>.

1 Select the **Security** menu in the BIOS Setup.



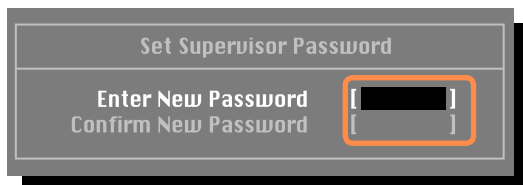
- 3** Enter the password with the keypad and press the **Enter** button. Reenter the password and press the **Enter** button.

You can use up to 7 alphanumeric characters for a password but you cannot use special characters.

The ← key on the keypad performs the role of Delete and the ◀ button performs the role of the Cancel (Esc) function.



To enter a number, press Num Lock and then enter the number. If you do not press Num Lock, the characters of the corresponding keys are entered instead of digits.



- 4** When a message confirming the password configuration appears in the [**Setup Notice**] window, press <**Enter**>.

The supervisor password has been set. The supervisor password is required to turn the computer on or to enter System Setup.

Setting a User Password

Users can start the system with a user password, but cannot enter the System Setup. By doing this, you can prevent other users from entering Setup.

Before configuring a user password, a supervisor password must have been configured. Deactivating the supervisor password also deactivates the user password.

In the **Set User Password** item, press <**Enter**> and complete the procedures of Step 3 of Setting a Supervisor Password.

Activating the Booting Password

Before activating the booting password, a supervisor password must have been configured.

Set the **Password on boot** option to **Enabled**. From now on, system booting will not proceed without the password.

Deactivating the Password

- 1 On the password to be deactivated, press **<Enter>**. For example, to deactivate a supervisor password in the **Set Supervisor Password** item, press **<Enter>**.
- 2 In the **Enter Current Password** item, enter the current password and press **<Enter>**.
- 3 Leave the **Enter New Password** item field empty, and press **<Enter>**.
- 4 Leave the **Confirm New Password** field empty, and press **<Enter>**.
- 5 In the [**Setup Notice**] window, press **<Enter>**.
The password is deactivated.

Changing the Boot Priority

The default boot priority of your computer is the CD-ROM first, then a removable device and then the hard disk drive in this order.

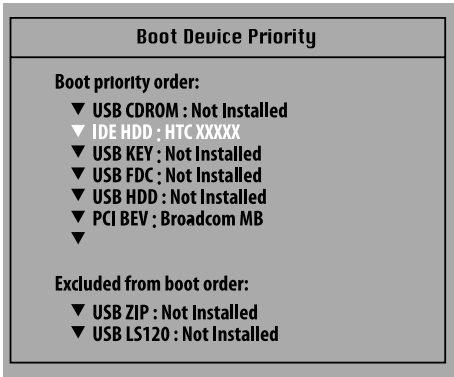
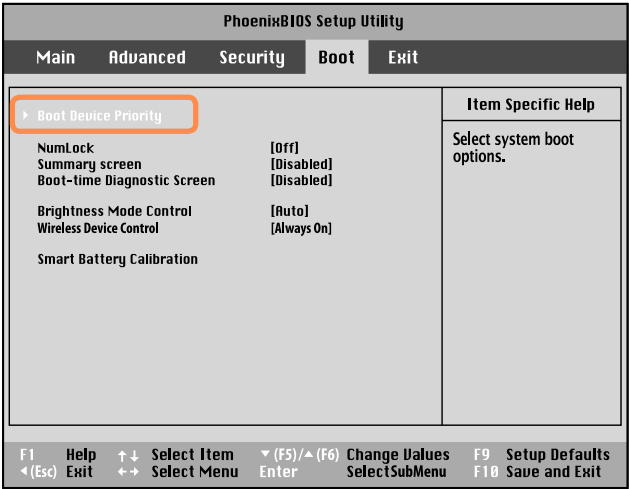
You can change the booting priority using the Boot menu of the System Setup. As an example, the procedures to change the highest boot priority device to the hard disk drive are described below.

1 Select the **Boot** menu in the BIOS Setup.

2 Press <Enter> on the **Boot Device Priority** item.

3 Push the **Mouse/Joystick** down to move the booting device upwards.

Alternatively, you can move the booting device by using the ▲ or ▼ buttons.



4 Press the ◀ button to exit the **Boot** menu. Move to **Exit > Exit Saving Changes** by using the **Mouse/Joystick** and press the **Enter** button. The changes are saved and Setup is closed.

Battery

Please refer to the following instructions when running the computer on battery power without connecting the AC power.

A Lithium-Ion smart battery is supplied with this computer.



Carefully read and follow the precautions printed on the battery before using the battery.



Precautions

Use only chargers specified in the User Guide.

Never heat the battery pack, put it near or in a fire or use at a temperature higher than 60°C, as this may cause fire.

Never cause a short circuit between the battery pack terminals or disassemble the battery pack.

Carefully read and follow the precautions printed on the battery and the safety instructions in the User Guide before using the battery.

Please refer to the system operation environment (☞ p.218) of this guide. Operate and store the battery at room temperature.

Installing/Removing the Battery

- 1 Shutdown the system and place the computer upside down on a flat surface.
- 2 Lift the Stand up and push the Battery Latch down into the **Release** (☞) position.

Lift the battery up and separate it.



- 3 To reinstall the battery, align the battery to the outside of the computer and insert the battery.

Lift the battery latch up to the **Lock** (🔒) position and put the Stand down.



When you are unable to insert the battery, check if the battery latch is in the **Release** (🔓) position. If it is in the **Lock** (🔒) position, you cannot insert the battery.

Charging the Battery

- 1 Attach the battery and connect the AC adapter to the DC-in jack of the computer.
The battery will then start charging.

- 2 When charging is complete, the Charge LED turns green.

Status	Charge LED
Charging	Amber
Charging complete	Green
AC adapter not connected	Off

Measuring the Remaining Battery Charge

You can view the battery charge status by completing the following procedures.

Viewing through the MENU button

Press the **MENU** button and press on **Battery**.

To view on the battery

Press the button on the outside of the battery to check the remaining battery charge.



Battery Usage Time Information

A battery is an expendable supply, so when using it over a long time, the capacity/battery life is shortened. If the battery life is reduced to under half of its initial time, we recommend purchasing a new battery.

For long periods of not using the battery, keep the battery after discharging it. This extends the battery life time.




Battery Warning

- You will hear an alarm when the remaining battery charge reaches below 10%.
In this case, connect the AC adapter or turn off the computer and install a fully charged battery.
- When the remaining battery charge is under 3%, the computer automatically saves the current work and turns off.

Extending the Battery Usage Time

Decreasing the LCD Brightness

For the models with Touch Sensor buttons, press the **MENU** button and click  from the **Brightness** item to decrease the LCD brightness. Then you can extend the battery usage time.

For models without Touch Sensor buttons, press the **User Defined button** (▼) while holding down the **DIAL KEY**. The LCD brightness is decreased and you can extend the battery usage time.

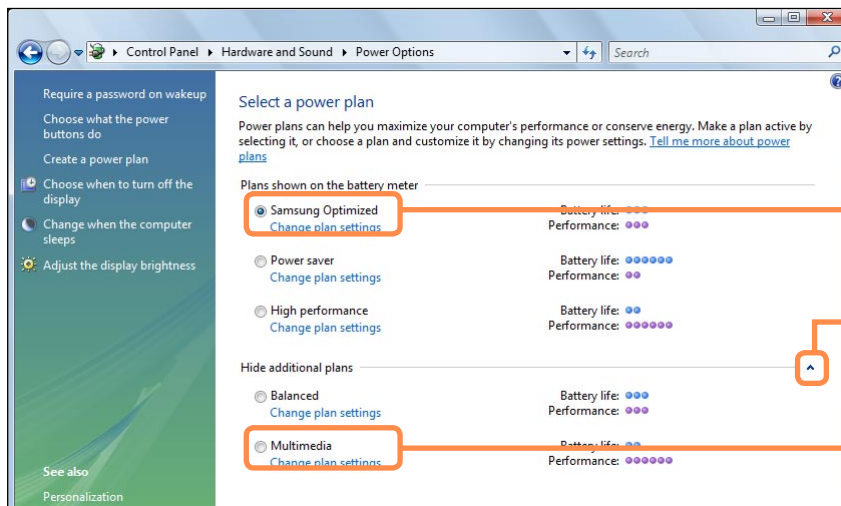
Using Easy Battery Manager

Easy Battery Manager is a power management program that enables using the battery power efficiently. You can select an optimized power mode according to your requirements.

1 Click **Start > Control Panel > Hardware and Sound > Power Options**.

Alternatively, right-click the power measuring device icon () in the notification area of the taskbar and select **Power Options**.

2 If the following screen appears, select one of the modes.



Samsung Optimized

Click the (▼).

Multimedia

Samsung Optimized

This mode is appropriate for normal conditions. It maximizes the system performance when the computer is running on AC power while maximizing the battery usage time when the computer is running on battery power.

Multimedia

This mode is appropriate for a multimedia environment that requires maximum system performance. Therefore, the battery usage time may be reduced in this mode.



Using the Easy Battery Manager power options

To use the Easy Battery Manager power options after reinstalling Windows, you have to install the Easy Battery Manager manually using the system software media. Since power options in the Easy Battery Manager aim at maximizing the battery usage time, programs requiring high performance may slow down when using the battery.

In this case, it is recommended connecting the AC adapter or selecting Power Saver.

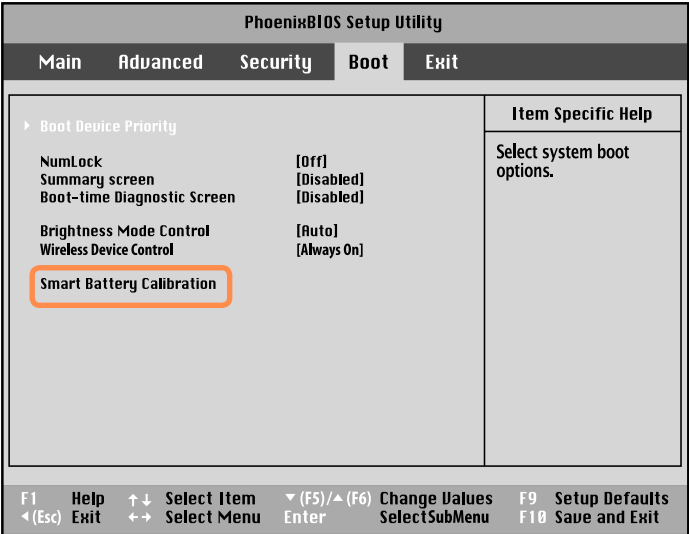
Using the Battery Calibration Function

When charging/discharging the battery repeatedly for a short time only, the battery usage time may be reduced by the difference between the actual battery charge and the remaining charge display.

In this case, the actual battery charge and the remaining charge display will be the same by discharging the battery completely using the Battery Calibration function, and then recharging it again.

- 1 Disconnect the AC power adapter after turning off the computer.
- 2 Turn the computer on again. When the SAMSUNG logo appears, press the **R** button to enter Setup.

- 3 Using the arrow keys, select **Smart Battery Calibration** in the **Boot** menu and press **Enter**.



- 4 Highlight **Yes** in the Battery Calibration Confirmation window and press **<Enter>**.
The Battery Calibration function is activated and the battery is forcefully discharged. To stop the operation, press the **◀ (Esc)** button.
This operation requires 3~5 hours depending on the battery capacity and the remaining battery charge.



Chapter 7.

Windows Media Center

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Connecting and Setting Up Media Center	165
Using Media Center	169

**Windows Media Center is provided for some versions of Windows Vista only.
Therefore, this chapter is for models with Windows Media Center only.**

About the Package Contents

The package contents of your Samsung computer may differ depending on the computer model.

The Media Center remote control, external-type remote control sensor and TV tuner card are not supplied with your computer and the devices are not required to use Media Center.

However, if you purchase and connect the devices, you can more easily use the various Media Center features.

About the Program Guide

An Electronic Program Guide (EPG) is provided by the EPG provider and the contents of the EPG may differ from the actual TV program depending on programming changes by the EPG provider or broadcast station.



- You can use the Media Center TV function only when there is an installed TV tuner card.
- The contents of this manual are subject to change for product improvement purposes.

Connecting and Setting Up Media Center

The basic usage of Media Center for Microsoft Windows Vista Home Premium is described below.



- This manual will describe procedures assuming that you are using Media Center with a mouse.
- Since Media Center supports the use of a mouse, keyboard and remote control, in this manual, [Select] means clicking with the mouse or pressing the corresponding button on the remote control.

Optional Devices

The remote control, external-type remote control sensor and TV tuner card are not essential for using Media Center. Since these devices are not supplied with your Samsung computer, you have to purchase them additionally if necessary.

Remote Control

Using the Media Center remote control, you can use Media Center more conveniently over a short distance.

External-Type Remote Control Sensor

To use Media Center using a remote control, you have to install the remote control sensor on the computer.

When purchasing a remote control, purchase an external-type remote control sensor at the same time.

- Connect the external-type remote control sensor to the USB port of the computer and turn the sensor so that it faces the remote control.



External-Type Remote Control Sensor

TV Tuner Card

Using a TV tuner card, you can watch and record TV programs.

Some models have built-in TV tuner cards. This manual describes their usage assuming your computer has a built-in TV tuner card.



There are two types of TV tuner cards, built-in and external types, and they may not support a recording function depending on the model.

Connecting Devices

► Connecting an external-type remote control sensor

Connect the external-type remote control sensor to the USB port of the computer.

► Connecting to the Internet

To view the TV Guide or to move to Media Center sites in Media Center, you have to connect to the Internet.

Connect the network (LAN) cable to the **LAN port** of the computer.



If the computer is not connected to the Internet, you cannot use the TV Guide (Channel Information) and the Online Spotlight functions.

► Connecting the TV antenna

To use the Media Center TV function, you have to connect the TV antenna to the TV tuner card.

If your computer has a built-in TV tuner card, connect the TV antenna cable to the TV Antenna Input port.

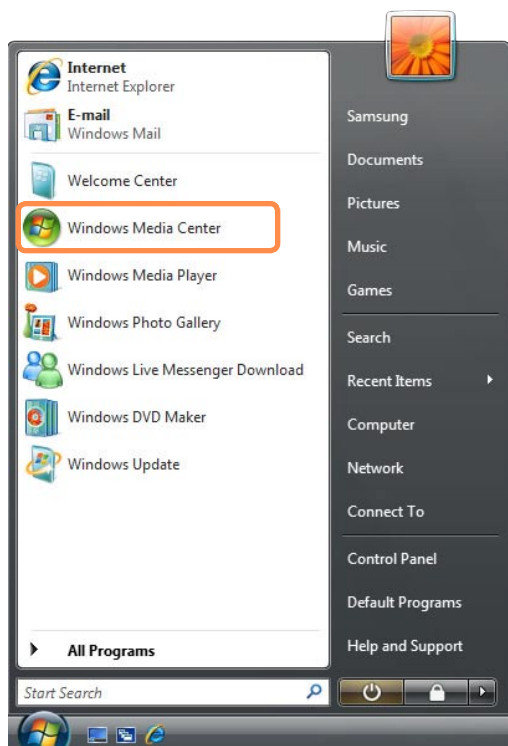


If you do not have an installed TV tuner card, you cannot use the TV function.

Media Center Setup

Connect all necessary devices and setup Media Center. You have to complete the settings to use Media Center.

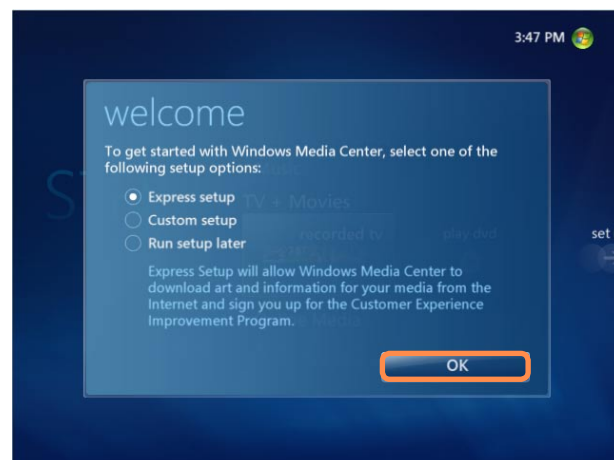
- 1 Turn the computer on.
- 2 Click **Start > Windows Media Center** or **Start > All Programs > Windows Media Center**.



- 3 If the following start screen appears, select the installation option.

Express Setup enables you to use the basic functions of Media Center when clicking **OK**. However, you cannot use TV and Internet related functions using Express Setup.

Custom Setup allows you to configure all settings including TV and Internet settings. If you click **OK**, the Setup Wizard starts.



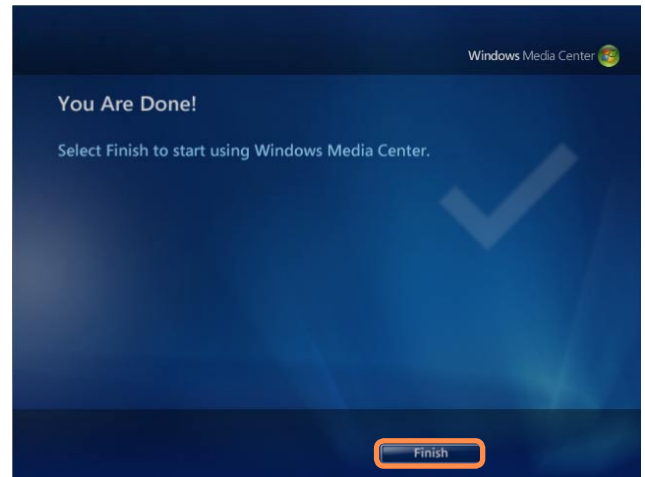
To setup the TV or Internet after an Express Setup, select **Tasks > Settings > General > Windows Media Center Setup** in the Media Center start screen and setup the following items.

4 If you have selected Custom Setup, continue with the setup according to the Setup Wizard instructions.

If there are no installed TV tuner cards, the TV related setup steps will appear during the Media Center setup.

In addition, if the computer is not connected to the Internet, you cannot setup and use the TV Guide (Channel Information).

5 When the Media Center setup is complete, click **Finish**.
Now you can use the Media Center.



Changing the Media Center settings

You can change the Media Center settings after completing the Setup Wizard according to the procedures below.

1. Select **Settings > General > Windows Media Center Setup** in the Media Center start screen.
2. Select **Run Setup Again**.
You can setup the Media Center settings again from the beginning.

Using Media Center

The descriptions of the Media Center start screen and basic functions will be given below.

Start Screen Layout



If you selected **Run Setup Later** in the Media Center start screen or did not complete the Setup Wizard, the Setup Wizard screen appears when launching Media Center.

If you complete the setup, the Media Center start screen appears.

Click **Start > Windows Media Center** or **Start > All Programs > Windows Media Center**.



Pictures + Videos: You can view pictures, images and video files.

Music: You can listen to music files, audio CDs and the radio.

TV + Movies : You can watch and record TV programs and play DVD titles.

Online Media: You can access all kinds of multimedia content over the internet.

Tasks: You can change the Media Center settings.

Navigation Arrow: If you move the mouse pointer over the arrow, you can navigate through the menu in the up, down, left and right directions.



The Menu and Play Control buttons appear for a moment only when moving the mouse pointer. The Media Player window size decreases if you perform another task after playing a media file.

Pictures + Videos

In Pictures + Videos, you can view pictures and videos registered to the Media Center library.

In addition, you can also view files not registered to the library by registering them, as well as viewing files on a removable disk.

Registering to the Library

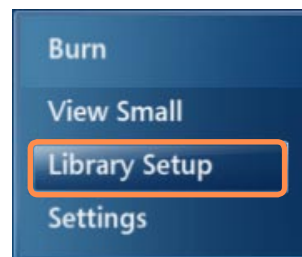
The procedures to register files to the library are described below.

- 1 Launch Media Center, and select **Pictures + Videos > Picture Library** or **Video Library**.



When you run it for the first time, an Add window may appear. In this case, you can add files according to the instructions on the screen.

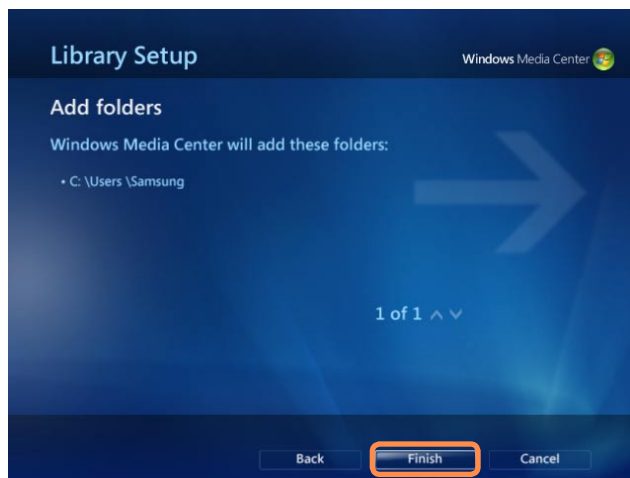
- 2 In the library menu, right-click and select **Library Setup**.



3 If the Library Setup screen appears, select **Add Folder to Watch**.

4 Specify the path for the folder according to the instructions on the screen.

5 If the following screen appears, click **Finish**. You can view the newly added folder in the Picture Library or Video Library.



Viewing Pictures and Images

The procedures to view pictures and images registered to the library are described below.



Picture and image files are saved in the **Computer > Local Disk (C:) > Users > User Accounts > Picture Folder** or **Computer > Local Disk (C:) > Users > Public > Public Pictures** folder.

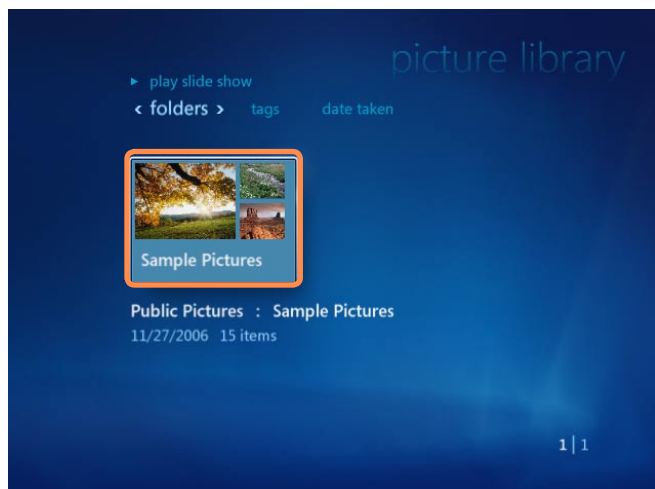
1 Launch Media Center, and select **Pictures + Videos**.

2 Select **Picture Library**.



When you run it for the first time, the **Setup Library** window may appear. In this case, click the **No** button.

3 Select a folder with picture files.



- 4 If you select a picture, the picture is displayed in full screen.
You can view another picture by using the Play Control buttons or the direction buttons on the keyboard.

- 5 To view pictures in a SlideShow, click on **Play SlideShow**.
Alternatively, select **Pictures + Videos > Play All**. Then the pictures in the registered folder are displayed in a random order.

Viewing Videos

The procedures to view videos registered to the library are described below.



Video files are saved in the **Computer > Local Disk (C:) > Users > User Accounts > Video Folder** or **Computer > Local Disk (C:) > Users > Public > Public Video** folder.

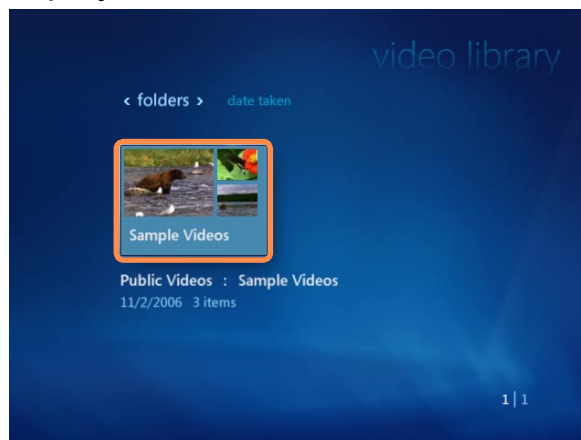
- 1 Launch Media Center, and select **Pictures + Videos**.

- 2 Select **Video Library**.



When you run it for the first time, the **Setup Library** window may appear. In this case, click the **No** button.

- 3 Select a folder with video files.
If you select a video file, the video file is played.



Viewing Pictures and Videos Saved on Removable Media

The procedures to view pictures, images and videos saved on removable media in Media Center are described below.

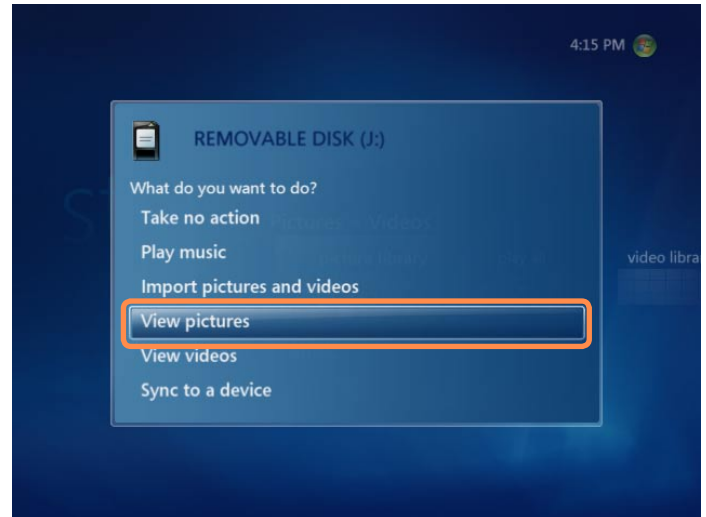
1 Launch Media Center.

2 Insert a removable media with picture, image or video files. Removable media refers to a CD, DVD, USB flash memory, memory card, etc.



To view pictures saved on a digital camera, connect the digital camera and the computer using a USB cable.

3 After a while, a window notifying you that new media has been found appears. Select **View Pictures** or **View Videos**.



4 If the file list appears, select a file.

5 View the picture or video.

Music

In Music of Media Center, you can play music files or audio CDs. In addition, you can rip the tracks of an audio CD onto the computer and play them later individually or by using a playlist.



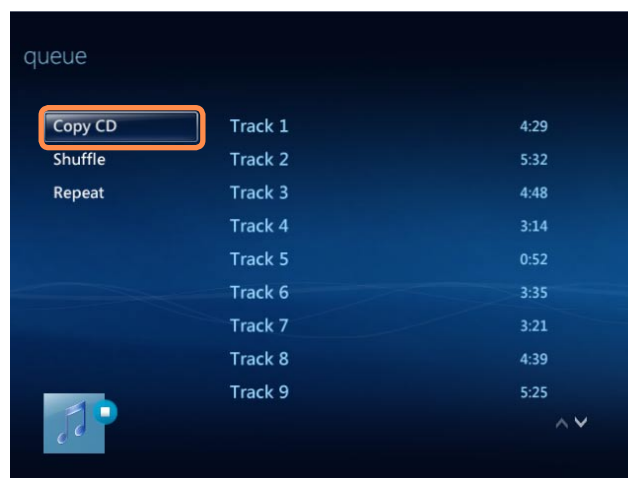
To use it, you need to connect an external-type ODD.

Playing an Audio CD

- 1 Launch Media Center.
- 2 Press the Eject button of the CD-ROM drive to open the CD tray and insert an audio CD. The tracks on the CD are played automatically.

Ripping an Audio CD

- 1 Launch Media Center.
- 2 Insert an audio CD into the CD-ROM drive and play the CD.
- 3 Select **Copy CD** at the bottom left of the Music Player window.



When running the Rip CD function for the first time, the Ripping Options appear. Configure the ripping options according to the instructions on the screen, and complete the following procedures. From the second time the program is run, the setup options are omitted.

- 4 If the Rip CD window appears, click **Yes**.
- 5 Ripping a CD begins by showing rotating CD icon on the right side that indicates ripping a CD is in progress. When ripping is complete, the ripping CD complete message appears.

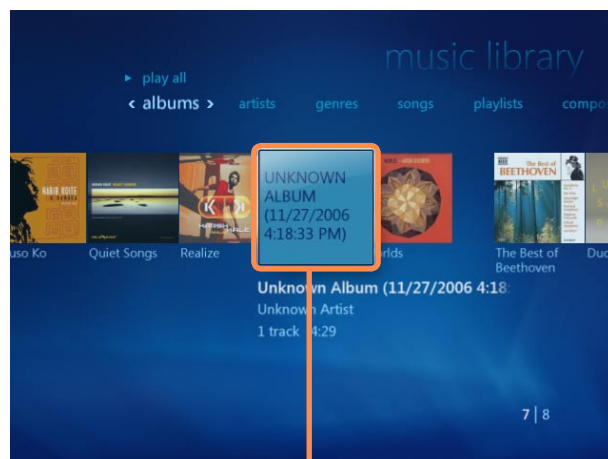


The ripped tracks are displayed in the **Music > Music Library** of Media Center and in the **Library** of Windows Media Player. The ripped tracks are copied to **Start > Music** of the Desktop as album files.

To change the folder to save the ripped tracks to, launch Windows Media Player and right-click over the top taskbar and select **More Options > Rip Music > Rip music to this location** from the pop-up menu.

Playing Ripped Tracks

- 1 Launch Media Center, and select **Music**.
- 2 If you select **Music Library**, the album list appears including the ripped album.



Ripped music albums

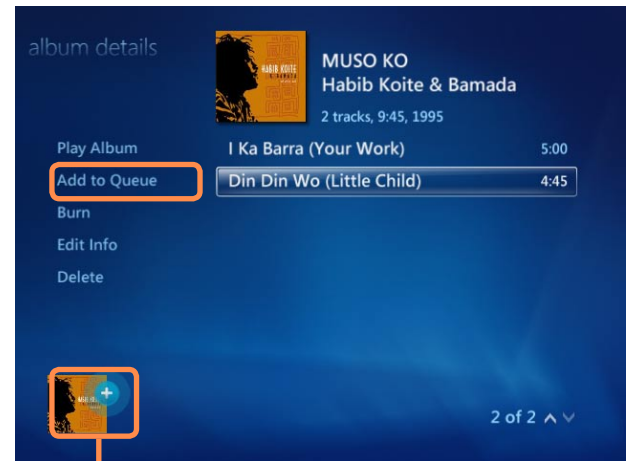
- 3 Select an album to be played and click **Play Album** in the left pane.
- 4 The album is played.

Using Playlists

You can easily create, manage and play a playlist with ripped music albums and music files downloaded from the Internet.

- 1 Launch Media Center, and select **Music > Music Library**.
- 2 You can search for a music file by selecting the album, artist, genre or song at the top.
If you select **Playlist > All Music**, all registered music files are listed.
- 3 Select the music files to be added to the playlist and click **Add to Queue** in the left pane.

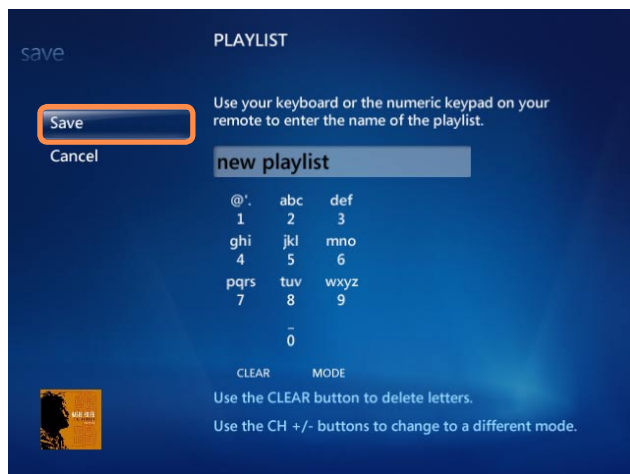
- 4 The + mark starts blinking at the bottom left of the Media Player window and disappears the selected music files are added to the queue.



Media Player Window

- 5 Select the Media Player window at the bottom left and click **View Queue**.

- 6** Select **Save As Playlist**, enter a playlist name and select **Save**. If you have a remote control, you can enter a name using the numeric buttons on the remote control.



- 7** To play the saved playlist, select **Media Center > Music Library > Playlist**, select a playlist and click **Play**.



- **If a music file appears in the Media Center even after the file has been deleted**

If you deleted a music file, you must also manually delete the file from the Media Center playlist.

- **Deleting a playlist from Media Center**

Select **Media Center > Music Library > Playlist**, select a saved playlist and click **Delete**. Then the selected playlist is deleted.

TV + Movies



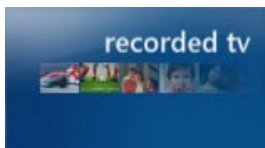
The TV function is only available when a TV tuner card is installed on your computer.

TV + Movies Menus



Live TV

You can watch live TV programs.



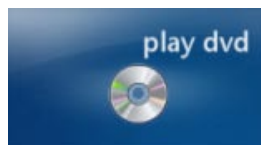
Recorded TV

You can watch recorded TV programs.

Guide

(TV Broadcast Program Guide - EPG)

You can view the TV program guide. You can watch or record live TV programs and reserve a recording.



Play DVD

The DVD title appears.

Search

You can search for a program by the title, keyword or genre.



What is a TV Program Guide - EPG?

An Electronic Program Guide (EPG) is a TV program guide. You can select a program and view detailed information on that program or set a recording. The guide information is updated by Media Center more than once a day.

Playing a DVD

The procedures to watch a DVD title are described below.



To use it, you need to connect an external-type ODD.

1 Launch Media Center.

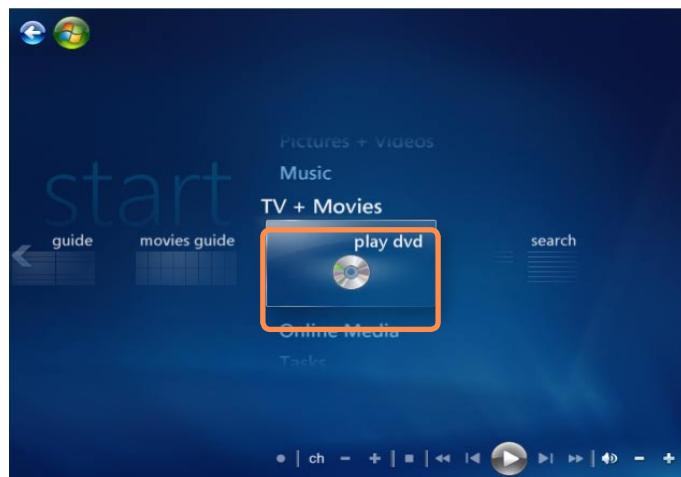
2 Press the Eject button of the DVD drive to **open** the tray and insert a DVD title.



If you insert a DVD title without starting Media Center, the Auto Play selection window appears. Select **Play DVD Video using Media Center** and click **OK**.

3 After a moment, the DVD menu is displayed.

If the DVD menu is not automatically displayed, select **Play DVD** in the start screen.



4 Select **Watch Movie** or **Play** from the DVD menu.

The DVD title is played.

If you move the mouse, the Play Control buttons appear. Using the Play Control buttons, you can play the DVD from a particular point or stop playing the DVD.

Online Media

You can access more online content through Online Media.

Online Media is a service provided by content providers via the Media Center. You can enjoy all kinds of multimedia content such as movies, news, sports, etc. over the Internet.



- To use Online Media, your computer must be connected to the Internet.
- For problems encountered while using Online Media, contact the corresponding online service provider. Online Media content services are not the responsibility of the computer manufacturer.

Chapter 8.

Appendix

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Using Samsung Magic Doctor

Magic Doctor is troubleshooting software provided by Samsung Computer. A user can diagnose system problems via one-click or by selecting diagnostic items.

Diagnosing the System

Diagnosing the System is a function to check system connections and diagnose problems affecting to system operation and solve it.

1 Click **Start > All Programs > Samsung > Samsung Magic Doctor > Samsung Magic Doctor**.

2 Click on **Diagnose the System** to start diagnosing the system.

3 When the system diagnosis is completed, the diagnostic result appears. If problems are found, click the **Cure** button to correct the problem. Samsung Magic Doctor starts the corrective operations.



Using McAfee SecurityCenter (Optional)

A computer virus is a program that damages computer files and information saved on a computer. A computer is infected by an already infected file or by another computer over the Internet. Let's learn how to use McAfee SecurityCenter in order to scan and remove viruses and to protect your computer from various threats on the Internet.




- This function is applied to some models only.
- When McAfee SecurityCenter is run for the first time, the Registration screen appears. Register according to the instructions on the screen. You have to register the software to protect the PC with the latest security information.
- If you cannot find McAfee Security Center icon on the Taskbar or as a shortcut icon on the Desktop, then double click McAfee Web Essentials icon and install the program.
- If you install McAfee SecurityCenter and another security solution (e.g. Norton Internet Security, Kaspersky, etc.) on the same computer, your computer performance may become degraded and your computer may not be protected from threats due to a conflict between the programs. It is highly recommended installing only one security program.

Scanning and Curing Viruses

- 1 Click **Start > All Programs > McAfee > McAfee SecurityCenter**.
- 2 Click **Scan** from the left pane of the program.

- 3 If a virus is found, remove the virus according to the instructions on the screen.



To protect yourself against the latest viruses, update McAfee SecurityCenter regularly. Connect to the Internet and click the **Update icon** ( Update) to update.

Reinstalling Software

You can reinstall software using the System Software Media, when a device driver or computer application is not working properly.



When software is not working properly, it is recommended removing the software using the Add or Remove Programs of the Control Panel and reinstalling the software using the System Software Media.

The System Software Media in the text is supplied as a CD or DVD depending on your computer model.

To use the system software media, **the external USB ODD must be connected** to the computer.

The following descriptions presuppose that the external USB ODD is connected.

Running the System Software Media

The System Diagnosis function enables users to diagnose the system connectivity, any system problems and resolve these problems.

1 Insert the System Software Media into the external ODD. When the AutoPlay window appears, click **Run SoftwareMedia....** in the **Install or Run Program** item.

2 In the **User Account Control** window, click **Allow**.



If you are not logged in with an administrator account, you have to enter an administrator password in the User Account Control window.

3 The **System Software Media** will launch.

Select an installation option to start the installation.



► **Standard Installation**

If you select this option, programs not currently installed on the computer are listed.

You can conveniently use this option, when installing all the programs on the media after reinstalling Windows.

► **Minimum Installation**

If you select this option, programs are listed that need to be installed on the computer (drivers, Windows updates, etc.).

You can conveniently use this option, when you need to install essential programs only.

► **Custom Installation**

If you select this option, you can select the programs to be installed.

You can conveniently use this option, when you need to install an individual driver or program that is causing a problem.

Installing Software



As an example, the installation procedures for the **Standard Installation** options are described below.

- 1 Select **Standard Installation** in the **System Software Media** main screen.



- 2 If the **Start Standard Installation** window appears, click the **Yes** button. The drivers and programs, which were installed in the computer when you purchased the computer, are installed again.

- 3 The **Software installations was completed** window appears. If you select **Yes** and click **Finish**, the computer is restarted.

Reinstalling Windows Vista

You can reinstall Windows using the System Recovery Media when Windows does not work properly.



- **System Recovery Media** is optional and may not be provided depending on your computer model. These descriptions are only for models supplied with the **System Recovery Media**.
- To install Windows, an **external-type ODD** and a **USB keyboard** are required. Connect the external-type ODD and USB keyboard before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.
- To reinstall Windows when Windows does not boot, refer to [p.188](#).
- The User Guide describes procedures on the basis of Windows Vista Home Premium.



Reinstalling Windows may delete data (files and programs) saved on the hard disk drive. Make sure to backup all important data. Samsung Electronics shall not be held liable for any loss of data.

Reinstalling in Windows

2 When the **AutoPlay** window appears, select **Run setup.exe** and tap **Allow**.



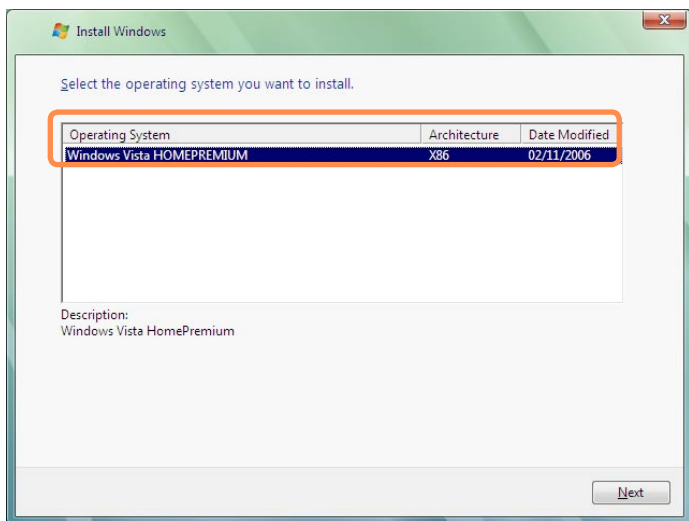
● Preparation

1. Connect an external-type ODD through the **USB Port** of the computer.
2. Connect the **external-type USB keyboard**.
3. Turn the computer on to boot up Windows.


1 Insert the **System Recovery Media** into the **external ODD**.



- 3 When the window appears allowing you to select the operating system to be installed, tap the **Next** button.



When previous Windows installation files are in the selected partition, a message appears informing you that the files and folders will be moved to the Windows.old folder. Click the **OK** button.

 The name of the operating system may differ depending on the Windows version.

- 4 When the Software License Agreement screen appears, select **Agree** and click the **Next** button.
- 5 When a window appears asking for the location to install the operating system to, select a disk drive partition and tap the **Next** button.

- 6 The Windows installation continues. The computer will restart 3 times during the installation. If the **Press any key to boot from CD or DVD...** message appears after a restart, do not press any button.

- 7 The Windows user registration screen appears. Select the username and photo and tap the **Next** button.

- 8 Enter the computer name. The window in which you can select the Desktop background appears. Enter the contents and tap the **Next** button.

- 9 The Windows automatic protection settings window appears. Configure the setting according to your requirements.

- 10 The time and date settings window appears. Tap the **Next** button.

11 The Registration Complete window appears. If you tap the **Start** button, a computer specifications check begins.

12 After a while, the Windows Desktop appears. When Windows is launched, install the device drivers and applications according to your requirements using the **System Software Media**.

Reinstalling when Windows does not start

When Windows does not start, boot up with the **System Recovery Media** and from there you can reinstall Windows.



Connect the **external-type ODD** and **USB keyboard** before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.

1 Insert the **System Recovery Media** into the DVD drive and restart the computer.

2 If the **Press any key to boot from CD or DVD...** message appears while booting, press any key on the keyboard.

Press any key to boot from CD or DVD.....

3 After a while, the Options windows such as Language, Time, Keyboard, etc. appear. Confirm the settings and tap the **Next** button.

4 When a window appears in which you can select the operating system to be installed, tap the **Next** button.



The name of the operating system may differ depending on the Windows version.

7 The subsequent steps are the same after 5 step for Reinstalling in Windows. p.186

5 When the Software License Agreement screen appears, select **Agree** and click the **Next** button.

6 When a window appears asking for the location to install the operating system to, select the partition of the disk drive and then tap the **Next** button.



- If you click Drive **Options (Advanced)**, you can delete, format, create or expand a partition. Click on a function and proceed according to the instructions on the screen.
- When previous Windows installation files are in the selected partition, a message appears informing you that the files and folders will be moved to the Windows.old folder. Tap the **OK** button.




For models with a hard disk drive of 60GB or less, Samsung Recovery Solution II supports the Basic Restore and Complete Restore functions except for the Backup functions.

What is Samsung Recovery Solution II?

Samsung Recovery Solution II enables you to easily restore your hard disk drive to a previous state when a problem occurs with your computer.

Samsung Recovery Solution II Functions

Samsung Recovery Solution II provides the following functions.

Function		Description
Restore	Basic Restore	This function restores major Windows files without touching the user configuration and data when a problem occurs with the computer. It restores the files over a short time (2~3 minutes).
	Complete Restore	Using this function, you can restore your computer's hard disk drive to its initial status when your computer is no longer working properly. You can use this function even if no restoration point was saved. <div> A Complete Restore will delete all data on drive C. Therefore, make sure to backup your data to another storage device before restoring it to the initial status.</div>
Backup	Factory Status Backup	This function saves the factory status image of drive C as a compressed image in a secure area. The factory status is automatically backed up after the computer is purchased so that users can restore the computer to the factory status.

Backup	User Backup	<p>This function saves the image of drive C to drive D at a user's specified time.</p> <p>If a user has backed up the disk image using User Backup, the user can restore the computer to the backup image using Complete Restore.</p> <p>Example) You can backup the disk image after installing a favorite game or MS Office.</p>
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The function for the right case!

► I cannot start Windows!

(The booting file is missing or a corrupted error message appears.)

This happens when Windows files are corrupted.

In this case, use the **Basic Restore** function of **Restore**. If the problem continues even after a Basic Restore is performed, use the **Complete Restore** function.

► The boot time increases, the system crashes and errors occur frequently!

In this case, use the **Basic Restore** function of **Restore**. If the problem continues even after a Basic Restore, use the **Complete Restore** function.


► I want to reinstall Windows only, without touching my documents!

In this case, use the **Basic Restore** function of **Restore**. It overwrites Windows and system files only.

Restoring Your Computer

Samsung Recovery Solution II operates as follows when the computer is used for the first time. You have to create a backup of the factory status according to the following procedures immediately after purchasing the computer to use the restoration function.

The overall procedures will be described here. For more detailed information on steps 3, 4 and 5, see p.194.

Setting Up Procedures	
❶ Turn on the power for the first time.	Turn on the power for the first time after purchasing the computer.
❷ Register Windows.	<p>If you turn the power on for the first time, the Register Windows screen appears.</p> <p>If you register Windows according to the instructions on the screen, the computer will be restarted.</p>
❸ The Partitioning hard disk drive function is automatically launched.	<p>When the computer is restarted, the partition disk screen appears for the efficient use of disk space.</p> <div><p>The partition disk function is only available when turning the computer on for the first time and will not be available thereafter.</p><p>Once you have completed the partitions, you cannot resize the partitions.</p><p>Therefore partition the disk carefully.</p></div>
❹ Samsung Recovery Solution II is automatically launched - Factory Status Backup.	<p>When the partitioning is complete, a screen appears which allows you to backup the factory status of drive C to drive D.</p> <p>This is a required step for backing up the factory status of drive C for the normal operation of Samsung Recovery Solution II.</p>

	<p>This backup image is used for the Complete Restore function that restores your computer to its factory status when the computer is not working properly.</p> <p>For the backup procedures, refer to page 193.</p>
<p>⑤ After 3 days, backup the hard disk, if necessary. (p.195)</p>	<p>3 days after the Factory Status Backup, a message appears asking if you want to backup the current status of drive C.</p> <p>The current image of drive C is saved to drive D and the last user backup image is removed.</p>

Backup Function

This function saves the image of drive C to drive D. If you backed up the disk image, you can easily restore the computer to the backup image when Windows does not work properly.

The backup function provides **Factory Status Backup** and **User Backup** functions. Therefore, there are 2 backup images available (Factory Status Backup and User Backup) for the restoration function.

Factory Status Backup

If you turn your computer on for the first time, the Factory Status Backup function is performed after registering Windows.

This function saves the factory status image of drive C to a secure area so that users can restore the computer to the factory status using the Complete Restoration function.

Factory Status Backup is only performed once after the computer is purchased.

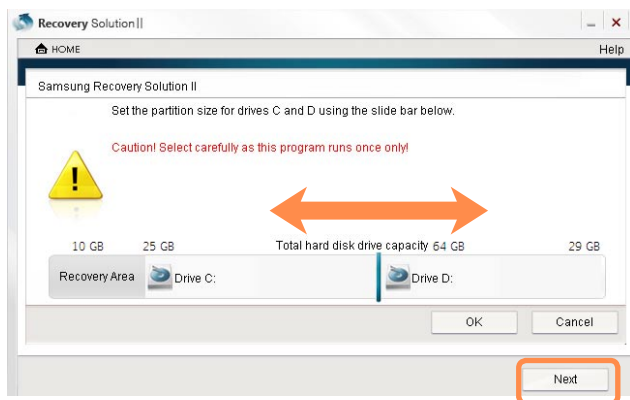
- 1 If you turn the power on for the first time, the Register Windows screen appears.
If you register Windows according to the instructions on the screen, the computer will be restarted for the Factory Status Backup.

2 When the computer is restarted, the partition disk screen appears before proceeding with the Factory Status Backup. Read the instructions on the screen carefully and click the **Next** button.



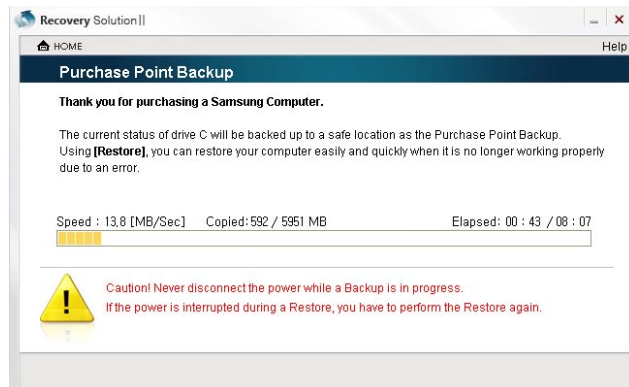
The partition disk function is only available when the computer is turned on for the first time and will not be available afterwards.

3 Partition your disk into drives C and D. Adjust the partition size using the slide bar and click the **Next** button.



Once you have completed the partitions, you cannot resize the partitions. Therefore partition the disk carefully.

4 When the partitioning is complete, the Factory Status Backup is performed to backup the factory status of drive C to a secure place.



This backup image is used for the Complete Restore function that restores your computer to the factory status when the computer is not working properly.

5 When the Partition and Factory Status Backup is complete, restart Windows.

User Backup

This function saves the image of drive C to drive D at a time specified by the user. You can backup and maintain only one copy of a User Backup image.



Since the backup image is saved on drive D, if drive D is formatted or the drive D partition is deleted, the backup image is also deleted so that you will not be able to restore the computer with the backup image.

- 1 Click **Start > All Programs > Samsung > Samsung Recovery Solution II > Samsung Recovery Solution II**.

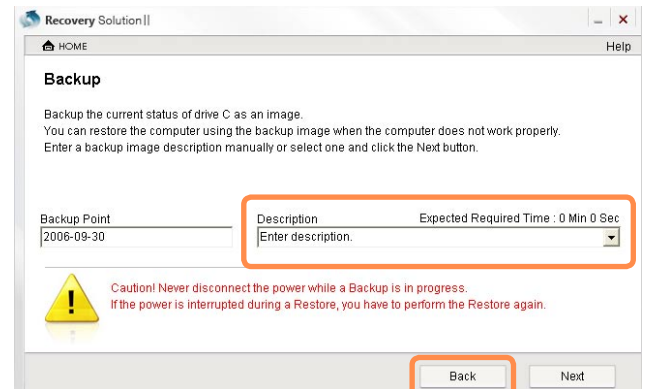
When you cannot start Windows

Turn the computer on and press the **F4** or **F7** key when the boot screen (SAMSUNG logo) appears. (If you press the key multiple times, the Windows Boot Manager screen may appear. In this case, press Enter.) After a while, the computer boots up in Restoration mode displaying the SAMSUNG Recovery Solution II screen.

- 2 If the initial menu screen appears, click **Backup**.
A description of the backup will be displayed on the screen.



- 3 Enter a brief description for this backup in the Description input box and click the **Next** button. The computer is restarted in restoration mode.



If the Samsung Recovery Solution II program is launched for the first time after purchasing the computer, the license agreement screen appears before starting the backup. Read the agreement and click **Agree** to continue.

4 Select drive D to save the backup file.

5 When the backup is complete and the system restart message appears, click **OK** to restart the system.

When the backup is complete, a Samsung Recovery folder is created on drive D and the backup disk image is saved in the folder.

This image is used for the Complete Restoration function when the computer is not working properly.

Restoration Function

When your computer does not work properly due to a problem with the computer, you can restore the computer a previous stable condition using Samsung Recovery Solution II. Samsung Recovery Solution II provides Basic Restore and Complete Restore functions.

What is Basic Restore?

This function restores major Windows files without touching the user configuration and data when a problem occurs with the computer.

What is Complete Restore?

This function restores your computer using the Factory Status Backup or User Backup image when the computer does not work properly. However, note that the Complete Restore function will delete all data on drive C.



If the problem continues even after the above Basic Restore function has been performed, a Complete Restore is recommended.

Restoring Your Computer

- 1 Click **Start > All Programs > Samsung > Samsung Recovery Solution II > Samsung Recovery Solution II**.

When you cannot start Windows



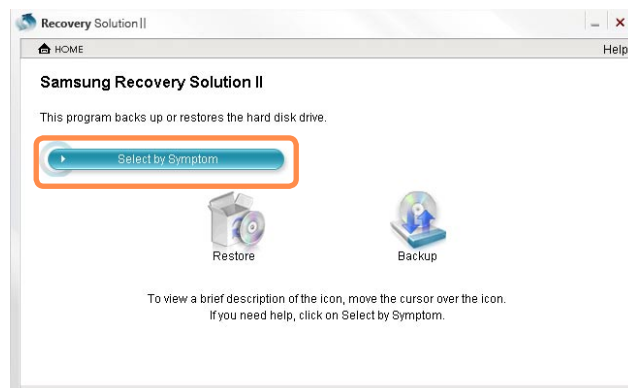
Since you can use it only when an external keyboard is connected, connect an external keyboard before turning the computer on. If you connect a USB keyboard during the installation, the system will not recognize the keyboard.

Turn the computer on and press the **F4** or **F7** key when the boot screen (SAMSUNG logo) appears. (If you press the key multiple times, the Windows Boot Manager screen may appear. In this case, press Enter.) After a while, the computer boots up in Restoration mode displaying the SAMSUNG Recovery Solution II screen.

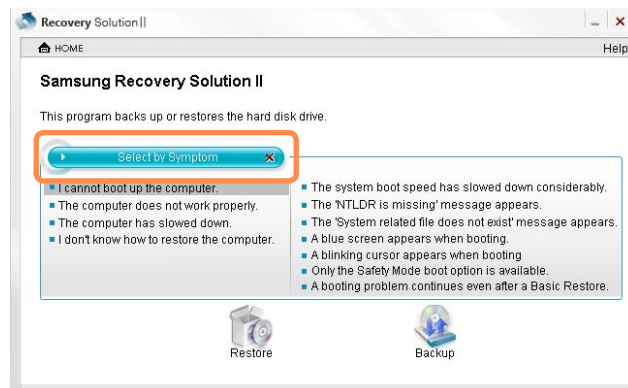


If the Samsung Recovery Solution II program is launched for the first time after purchasing the computer, the license agreement screen appears before starting the restoration. Read the agreement and click **Agree** to continue.

- 2 If the initial menu screen appears, click **Select by Symptom**.



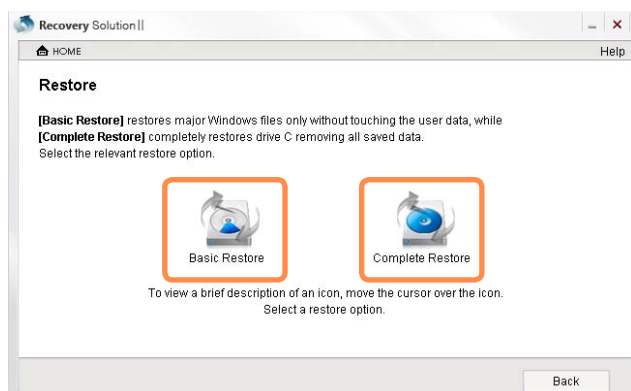
If you select a symptom, Samsung Recovery Solution II will display the recommended restoration menu.



- 3 If you fail to find your symptom using Select by Symptom, close the Select by Symptom screen and click **Restore** from the main menu.



- 4 Select either **Basic Restore** or **Complete Restore** from the Restoration menu.



- 5 If you have selected **Basic Restore**, and you click the **Next** button, the system is restarted and boots up in restoration mode. If you have selected **Complete Restore**, select a restoration point, and then click the **Next** button.

The system is restarted in restoration mode.



The first time the computer boots up after a Complete Restore has been performed, the boot speed may slow down due to the system optimization process.

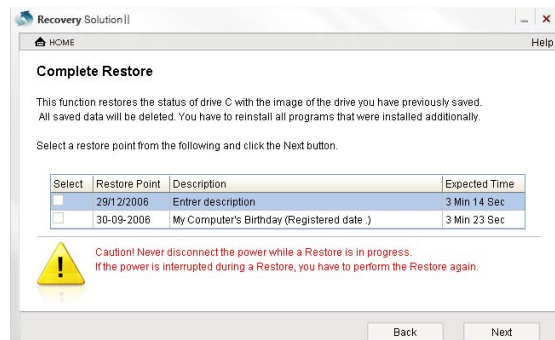


Available restoration points for the Complete Restore function

In the Complete Restoration function, you can select either **Factory Status Backup** or **User Backup**. If you have not created a User Backup, you cannot select **User Backup**.

When the computer boots up in restoration mode, the restoration progress message appears. If you click **OK**,

the restoration is performed. When the 'Restart the System' message appears after the restoration is complete, click **OK** to restart the system.



Removing Recovery Solution

If you do not need or use Samsung Recovery Solution II, you can remove the Recovery Solution program.

► Removing the Samsung Recovery Solution II Program



Even if you remove the Samsung Recovery Solution II program, only the program is removed leaving the restoration area on the disk unchanged.

Therefore you can use the Backup, Restore and Install functions by pressing the F4 or F7 key while booting up even after the Samsung Recovery Solution II program is removed.

- 1 Click **Start > Control Panel > Add or Remove Programs**.
- 2 Select Samsung Recovery Solution II and click the **Change/Remove** button. Then the Samsung Recovery Solution II program will be removed.



Q & A

This section provides information on possible problems, solutions and other references for using the system.

Display Related

Q The LCD screen is too dark or too bright

- A** Adjust the LCD brightness. For the models with Touch Sensor buttons, press the **MENU** button and click on **Brightness**  or .

For models without Touch Sensor buttons, press the **User Defined buttons** (/) while holding down the **DIAL KEY**.

Q The screen saver disturbs Media Player playing a movie or video clip after the screen saver is activated while Media Player is playing.

- A** Go to **Library > More Options > Player > unselect Allow screen saver during playback** in the Media Player.

Q In the following cases, the screen blinks or displays noise for a short time.

Click the Graphics Related tab, Change Resolution, Change Display Device, Remove the AC Adapter, Restart the System, Change Power Scheme.

- A** This may happen while the video driver is examining the connected device. While busy detecting, any connected display devices may blink or some noise may occur.

Q When I connect a projector, and change the settings to display the screen image on both the LCD and the projector by pressing the **MENU** button, the screen is not displayed properly.

A Press the **MENU** button and press the button to the right of the **LCD/CRT** button to switch to **LCD+CRT Clone**.
The screen may not be displayed or only part of the screen may be displayed when the LCD resolution is too low or too wide and the projector cannot support the resolution. In this case, **right-click** over the Desktop, select **Personal Settings > Display Settings (Y)**, set the resolution to 800 x 600 pixels and then try again.

Q The shortcut icons are not displayed on the screen even if I press the shortcut key.

A The shortcut icons only appear when the Easy Display Manager program is installed.

Q I have connected a monitor (or projector) to the computer, but the colors on the monitor are abnormally displayed.

A Check if the monitor and computer are properly connected with the signal cable and reconnect the cable if necessary.

Q The picture on the screen trembles.

A The picture on the screen may tremble when you view some Internet pages or play some on-line games. In this case, using an external monitor is recommended.

Wired Network (LAN) Related

Q The <Wake On LAN> function

A1 <Wake On LAN> is a function that activates the system from Sleep mode when a signal (such as a ping or magic packet command) arrives over the network (wired LAN).

Using the <Wake On LAN> Function

- ① Click **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections**.
- ② Right-click on the **Local Area Connection** and select **Properties**.
- ③ Click **Configure > Power Management** tab. Select **Allow this device to bring the computer out of standby**, then click **OK**. Restart the system.
 - If the system is activated from Sleep mode when there is no received signal, use the system after disabling the <Wake On LAN> function.
 - When turning the power off when <Wake On LAN> is disabled, the LAN LED may continue to be lit.
 - Connecting a wired LAN while using a wireless LAN may not activate the <Wake On LAN> function. Set the Wireless LAN to **Disable** to use the <Wake On LAN> function.
- ④ Click **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections**.
- ⑤ Right-click on the Wireless Network Connections and select **Disable**.

Q When I am connected to a 100Mbps/1Gbps wired LAN and the computer exits Sleep/hibernation mode, a message appears informing you of a connection to a 10Mbps/100Mbps wired LAN.

A When the computer exits standby/hibernate mode, restoring the network takes about 3 seconds.
When the network is restored, it operates at 100Mbps/1Gbps.

Wireless Network (WLAN) Related


Q The Wireless LAN device is operating properly, but I cannot connect to the Internet or to another computer.

► **This is due to an incorrect configuration, or a configuration error. Check the following:**

- A1** If you are using a computer-to-computer (Ad Hoc) network connection, check that the name of the configured network (SSID) is correct.
- A2** If you are using a network key (encryption key), you have to use the same network key for an AP (Access Point) or a computer-to-computer network (Ad Hoc). The network key of the AP is configured in the AP management program. Ask your network administrator or AP manager for more detailed information.
- A3** Check that the device driver is installed properly. If the driver is not properly installed, you will find a yellow exclamation mark on the network icon by clicking **Start > Control Panel > System and Maintenance > Device Manager > Network Adapter**.

Q The signal strength is excellent, but I cannot connect to the network.

► **Even if the signal strength is excellent, the network connection may not operate properly if the TCP/IP properties are not properly configured, or the network key (encryption key) is incorrect.**

- A** Check that the TCP/IP properties are configured properly. When connecting to an AP, right-click the **Network Connections**  icon on the taskbar and select **Network and Sharing Center**. If you click the **View Status** next to a connected wireless network device and then click the **Detail** button, you can view the IP information. If the IP is not allocated properly, the IP address will be displayed as follows (e.g. 169.254.xxx.xxx).

If the network does not provide DHCP, you have to specify the correct IP address by asking your network administrator.

Even if the network provides DHCP, the server may not allocate an IP address to the client properly, and the client station cannot connect to the network.

Q I cannot connect to the AP.

► Check the Computer Settings

A1 Click **Start> All programs> Accessories> Windows Mobility Center** and check the status of Wireless Device.

- **When the Wireless is turned off**

Turn on the Wireless via the button '**Turn wireless on**' in the Mobility Center.

If the button is inactivated with gray color, change the Wireless LAN item to **On** in the **MENU**.

- **When the Wireless Network status is 'Not connected'**

The computer is not connected to AP. Check the AP status with reference to '**Check the AP Settings**' below.

Retry to connect after checking the network key settings (encryption key) of related AP.

- **When the Wireless Network status is Connected but the internet is not enabled.**

The computer is connected to AP but the AP or the network connected with the AP may have a problem.

- **When a message of 'No wireless Adapter found' appear or a icon for Wireless Network is not found in the Mobility Center.**

The wireless device is set to '**Disabled**' or the device is not detected. Check if the wireless device has been properly recognized through the Device Manager Window and check if the wireless device is set to **Disabled** by right-clicking it. Make sure it is set to **Enabled**.

A2 Verify whether the same network key (encryption key) has been entered for both the AP and the computer. The network key is an encryption key for encrypting the data transmitted between the AP and the computer. It is recommended setting the network key manually.

► Check the AP Settings

For the AP settings, refer to the User Guide provided by the AP manufacturer.

- A3** Verify whether the environment is suitable for using a wireless LAN. The use of a wireless LAN may be restricted according to the environment and distance. Obstacles such as walls or doors affect the use of a wireless LAN. Install the AP in a high and open space, 50cm from the wall and far removed from any other radio signal sources.
- A4** Verify whether the AP is operating properly.
- When the AP is not operating normally, turn off the AP, wait a short while, and turn it on again.
 - Verify whether the AP's firmware is the most recent version. (Contact the AP manufacturer or the place where you purchased the AP for details of the AP firmware.)
- A5** Verify whether the AP has been properly connected to the network. Verify whether the network is operating normally by connecting the wired network cable, which has been connected to the AP, to your computer.
- A6** Check the network key settings (encryption key) again. When automatic code conversion (a passphrase function) has been selected and data communication is not functioning even with a normal wireless connection, it is recommended entering the network key (encryption key) manually.
- A7** Check the AP settings as follows. (The following is recommended for a standard environment and thus may differ according to the specific wireless network environment.)
- When several APs are present simultaneously, check the channel settings for each AP. When different APs are using nearby channels, interference may occur between the electronic waves. Set the AP channels further apart from each other.
(Ex: Ch1, Ch5, Ch9, Ch13)
 - When an AP's SSID (Service Set ID) option is set to "Hide", you cannot search for that AP on the computer. We recommend unselecting the "Hide" option for the AP. The SSID is a name used for distinguishing one wireless LAN from another wireless LAN.

- It is recommended using Long Preamble. Preamble is a signal for data transmission synchronization. Short Preamble may be supported by some types of APs but may cause compatibility problems.
- It is recommended using a static IP.
- Since static channel selection is more reliable than auto channel selection, it is recommended using a static channel.

Q When connecting to a computer-to-computer (Ad Hoc) network, I cannot connect to another computer on the same computer-to-computer network.

- A1** Make sure that the security settings and network name of the computer-to-computer (Ad Hoc) network are correct.
- A2** Check the TCP/IP properties of the computers to be connected through the computer-to-computer (Ad Hoc) network. All computers to be connected through the computer-to-computer (Ad Hoc) network should be configured so that their IP addresses are within the same subnet range.
- If the TCP/IP Settings are configured to DHCP, the address is automatically configured to an address within the subnet IP range. This will take about 2~3 minutes.
 - If the IP address is configured to a static IP in the TCP/IP properties, select Use the following IP address in the TCP/IP properties of the wireless adapter, configure an IP address between 10.0.0.1~10.0.0.254, and a Subnet mask of 255.255.255.0, and try again.
 - A fixed IP is recommended for a small-sized network.
 - If you are using a DHCP IP address, the system boot time may be extended.
- A3** You have to register the IP address allocated for the wireless adapter as a 'Trusted IP' in McAfee SecurityCenter.

Click **McAfee SecurityCenter > Advanced menu > Configure > Internet and Network > Advanced > Trusted and Banned IPs**, and register the IP address or IP address range as a Trusted IP address.

Q When using a computer-to-computer (Ad Hoc) network, sometimes I cannot search the access point.

A It may happen occasionally when you are using a computer-to-computer (Ad Hoc) network connection. Even if you cannot find some access points, the computer-to-computer (Ad Hoc) network is operating properly. Click Refresh to view the latest search result.

Q The network does not operate properly when both the wireless and the wired network connections are simultaneously configured with the same IP address.

A You cannot use the wireless and the wired network connections using the same IP address simultaneously. To use either the wireless or the wired network in turn with the same IP address, you have to Disable whichever network device will not be used in the network connection of the Control Panel.

Q The wireless LAN does not work properly when there is a device operating on an adjacent frequency in the vicinity of the product.

A1 Channel interference may occur when a wireless video transceiver or a microwave oven is being used. If you experience channel interference from other equipment, we recommended changing the channel for connecting to the AP. For more information about AP settings, refer to the User Manual supplied by the AP manufacturer.

A2 Since IEEE802.11g equipment operates in hybrid mode when there is active IEEE802.11b equipment, the data rate may be degraded.

Bluetooth

Q The Korean or Chinese characters in a business card received via Bluetooth are broken.

A1 If you send a business card including Korean or Chinese characters by selecting a **Select a business card in the file (*.vcf, *.vcd)** option, the characters on the received card will be broken.

This is because the contents of the business card file are not set to Korean or Chinese characters (CHARSET). To resolve this problem, edit the contents of the business card file manually as follows.

❶ Right-click over a business card file (*.vcf, *.vcd) to be sent and select **Connect Program > Select Program**.

❷ Select **Notepad** from the program list.

❸ Edit the file as follows.

Example) "N:Magic Sens" => "**N;CHARSET=KS_C_5601**:Magic Sens"

For Korean, add "CHARSET=KS_C_5601"

For Chinese Simplified (CHS), add "CHARSET=gb2312"

For Chinese Traditional (CHT), add "CHARSET=Big5"

A2 Perform Send business card immediately in the Address Book of Microsoft Outlook or select Transmission by **Outlook business card selection**, and you will be able to transmit a business card without broken characters and without editing the VCF file.

Q When no headset is found or cannot be connected.

A1 If the headset is already connected to another device, you will not be able to find the headset and cannot connect to the headset even if the headset is found. Disconnect the connection to the other device and then start the search again.

A2 If the headset is connected to a power adapter, you cannot make a Bluetooth connection.

Disconnect the power adapter and then retry.

A3 In general, a Bluetooth headset has 2 operating modes, On/Off mode and Pairing mode.

To connect the headset to another Bluetooth device such as a PC or cell phone, the headset must be in Pairing mode.

Switch the headset to Pairing mode and then retry the search operation.

In general, the headset in Pairing mode automatically returns to On/Off mode after a certain period of time.

Q There is no sound or sound is intermittently interrupted after connecting a headset.

A1 If your headset is a **mono headset**, check if a mono headset connection has been made. In this case, to resolve the problem, complete the procedures below.

- Double-click the Bluetooth icon in the notification area of the Taskbar, select the **Audio** tab and check the connectivity of the Bluetooth Hands Free Audio Device that corresponds to the headset in the Connected Device List. If it is not connected, right-click over the device and select **Connect**.
- Right-click the Speaker icon in the notification area of the Taskbar, select **Play Device > Bluetooth Audio > Load Defaults** and then click the **OK** button.
- After changing the Bluetooth or sound settings, you have to exit and re-launch the audio and video player programs to apply the changes.



The bluetooth **Mono Headphone** and **Microphone** functions are activated.

A2 If your head set is a **stereo headset**, you have to check if the headset is connected as a stereo headset.

To resolve the problem, complete the procedures below.

- Double-click the Bluetooth icon in the notification area of the Taskbar, select the Audio tab and check the connectivity of the **Bluetooth Stereo Audio Device** that corresponds to the headset in the **Connected Device List**. If it is not connected, right-click over the device and select Connect.
- Right-click the Speaker icon in the notification area of the Taskbar, select **Play Device > Bluetooth High-Quality Audio > Load Defaults** and then click the **OK** button.
- After changing the Bluetooth or sound settings, you have to exit and re-launch the audio and video player programs to apply the changes.

Game and Program Related

Windows Vista may not provide some functions properly when performing some applications especially games, or may cause a problem due to a device driver compatibility issue. For the latest device drivers and bug fixes, please refer to the respective company's website.

Q A 3D game does not work, or some functions are not working.

- A** Change the graphics settings of the game to '2D' or 'Software Renderer', then run the program again.

Q While playing a game, the screen may not be displayed or may be displayed abnormally when pressing the MENU button and then pressing the button to the right of the LCD/CRT button.

- A** Since the controls change for games and some 3D applications due to the system properties when the display device changes, pressing the MENU button and the button to the right of the LCD/CRT button while a program is running may cause the program to exit or cause the screen to be displayed abnormally.

Please use the button to the right of the LCD/CRT button before running a program. Using the button while a program is running is not recommended.

Q Running speed of a game is too slow or fast.

- A** Right-click over the Desktop, select **Personal Settings > Screen Saver > Change Power Setting** and select '**High Performance**'.

Q The picture is not displayed properly for some games.

- A** Some games such as 'Harry Potter and the Sorcerer's Stone', 'Harry Potter and the Chamber of Secrets', etc. may not display the picture properly when the screen resolution is set to 1024x768 and the color quality is set to 32 bit.

For these games, set the screen resolution to 1024x768, and the color quality to 16 bit.

Q The game is not displayed smoothly on the screen.

- A** For 3D games, the texture data for the 3D screen display is saved to the system memory.

If there is insufficient system memory, the data is saved to the hard disk drive and loaded to memory when required. This operation may temporarily stop displaying the picture on the screen.

In this case, lower the game resolution or the screen settings.

Samsung Recovery Solution II

Q After performing a User Backup, the 'Insufficient free space in the hard disk drive' message appears.

► **This message appears when there is insufficient free space for the User Backup.**

A If there is insufficient free space on the hard disk drive, the User Backup file cannot be saved.

For the User Backup, move or delete some files from the hard disk drive and then try again.

Q The hard disk drive capacity is different from the specifications.

- A**
- The hard disk drive capacity displayed in My Computer or Windows Explorer is calculated by regarding 1024 bytes as 1kbyte and is smaller than the actual capacity. This is just a difference from the calculation method and the capacity of the hard disk drive is the same as the specifications.
 - If your computer model is supplied with a fingerprint identification or system diagnosis program, the hard disk drive capacity may be displayed smaller than it should be because the programs use some of the hard drive capacity.
 - Since Samsung Recovery Solution II is installed on your computer and it reserves approximately 10 GB to save the restoration image, the hard disk drive capacity will be smaller than the actual capacity in My Computer or Windows Explorer. The amount of hard disk drive space used by Samsung Recovery Solution II may differ depending on the computer model.

You can check the actual hard disk drive capacity in the BIOS SETUP, by pressing the <F2> key while booting up the computer.

Q I have pressed the F4 button several times while the computer is booting up in order to use Samsung Recovery Solution II, but Windows Boot Manager suddenly appears instead.

A This happens when the Windows Vista Setup menu of the Windows Boot Manager is activated. In this case, press the <**Enter**> key to boot the computer into Restoration Mode of Samsung Recovery Solution II.

Other

Q I cannot run any functions.

A1 This may happen when the computer is in the HOLD status. When pressing a button or switch in the HOLD status, the **Charge LED** blinks for a moment. Slide the HOLD switch downwards and try again.

A2 If the computer is running on battery power, check the battery charge status.

Q The [Power Switch] does not work.

A1 This may happen when the computer is in the HOLD status. When pressing a button or switch in the HOLD status, the **Charge LED** blinks for a moment. Slide the HOLD switch downwards and try again.

A2 If the computer is running on battery power, check the battery charge status.

Q A 4GB memory capacity is not recognized by Windows.

- A** Windows Vista cannot display more than 4GB of memory due to license problems and driver compatibility reasons.
Although the memory capacity is displayed as 3GB in the system information, the 4GB memory is recognized and can be used normally.

Q The User Controls window appears when installing or running a program in Windows Vista.

- A** In this case, click **Allow** (or **OK**) to install or run the program. However, if you do not have an administrator account, you have to enter the administrator password in the User Controls window and then click **Allow** (or **OK**). If no administrator password is set you can click **Allow** (or **OK**) without entering a password.

Q How can I install the program?

- A** You can additionally purchase and install the following devices for UMPC.
(See the **Installing Programs** section of the 'Getting Started Guide').
- **External USB ODD dedicated to UMPC or Compatible External USB ODD**
 - **External USB HDD**
 - **USB Data Cable**
 - **LAN Cable** (direct cable or cross cable), etc. : Since the usage of a direct cable is the same as that of a cross cable, refer to the 'Getting Started Guide'.

Q I have turned the LCD screen off with a portable USB keyboard, but I cannot turn it on again.

A When you are using an optional **Portable USB Keyboard Dedicated to UMPC**, if you have turned the **Backlit OFF** (Screen Off) by pressing the <Fn>+<F5> keys, press the <Fn>+<F5> keys on the keyboard again to turn the **Backlit ON** (Screen On).

Q I want to replace the pointing stick cap of a portable USB keyboard.

A A portable USB keyboard has a pointing stick that can be used instead of a mouse. Since a spare pointing stick cap is supplied when you purchase a USB keyboard, you can remove the cap and then insert a new one if necessary.

Q The Touch Sensor Buttons do not work.

A1 Try to press a Touch Sensor Button with your finger and not with your finger tip, so that a broader surface of your finger makes contact with the button.

A2 The UDF button only works when the Easy Button Manager program icon is registered to the Taskbar notification area. When you cannot find the icon in the Taskbar, select **Start > All Programs > Samsung > Easy Button Manager > Easy Button Manager** to launch Easy Button Manager, and try again.

A3 The VOL+/- buttons only work when the Easy Display Manager program icon is registered to the Taskbar notification area. When you cannot find the icon in the Taskbar, select **Start > All Programs > Samsung > Easy Display Manager > Easy Display Manager** to launch Easy Display Manager, and try again.

Intel Media Sharing Software Information

(Only for some models)

Intel Media Sharing Software enables users to access, download and play all kinds of media files such as music, video, image and picture files in the home network environment.

Intel Media Sharing Software runs on Intel CPU installed Intel Centrino mobile PCs only. You can achieve the best performance when the software is used with the Intel Viiv system.



- For detailed information about the Intel Viiv system, visit the Intel website:
<http://www.intel.com>
- This function is only supported for some models.

Running Intel Media Sharing Software

If you are running the Intel Media Sharing Software for the first time, the Select a server message appears.

If you do not have a Media Sharing Server or a Viiv System at home, select Offline. Otherwise, configure the settings according to the instructions of the Installation Wizard. For detailed information about Intel Media Sharing Software, refer to the online help of the Intel Media Sharing Software.

Product Specifications (NP-Q1 Ultra)

The system specifications may differ depending on the derived models. For detailed system specifications, refer to the product catalog.

CPU*	Intel ULV CPU
Cache Memory*	512KB
Main Memory*	512MB~1GB, MAX 1GB, Memory type: DDR2 SODIMM
Main Chipset*	Intel 945GU
Hard Disk Drive*	1.8" HDD, 40/60/80GB
Graphics*	Intel Graphic Media Accelerator 945
Sound Chipset	HD Audio, ALC262 Codec
Network*	Wired LAN: Broadcom BCM4401E 10/100 PCI Ethernet Controller
	Wireless LAN: 802.11BG
	Bluetooth 2.0+EDR
Multi Card Slot*	SD Card / MMC
Ports*	USB 2.0 x 2, Video (Monitor) Out Port, Headphone Jack, Wired LAN Port, DC-in Jack
Dimensions	227.5 x 123.9 x 22.9~23.9mm
LCD	7" WSVGA (1024x600)
Weight*	A mere 690g (1.52lb) (Without optional items)
Battery*	Lithium-Ion smart battery: 4 Cells or 6 Cells
Operating Environment	Temperature (storage) : -5 ~ 40°C (operation) : 10 ~ 32°C
	Humidity (storage) : 5% ~ 90% (operation) : 20% ~ 80%
Operating Voltage	100 - 240VAC
Frequency	50 / 60Hz
Output Power*	60/90W
Output Voltage	19VDC



- The (*) mark represents optional components. Optional components may not be provided or different components may be provided depending on the computer model.
- The system specifications are subject to change without notice.
- The hard disk drive capacity of a computer in which Samsung Recovery Solution II is installed, is represented as smaller than the product specification.

Wireless LAN Specifications (802.11BG Card)

Atheros AR5006EX Wireless Network Adapter Device

■ **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Same as System Operations Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Sleep Mode	726mW
	Receive Mode	1.353W
	Transmission Mode	2.046W
	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11b, IEEE 802.11g
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi. To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.

■ Radio Specifications

The wireless network interface is designed for the 2.4GHz frequency in the unlicensed ISM band.

RF Band	2.4GHz
Supported Channels	Channels allowed per country.
Device	Transceiver
Standard Output Power	MAX 10 mW
Modulation Scheme	11b mode : DSSS, CCK
	11g mode : OFDM
Data Rate (Mbps)*	11b mode : 11, 5.5, 2, 1
	11g mode** : 54, 48, 36, 24, 18, 12, 9, 6
Antenna Type	Built-in Antenna

* The data rate may differ from the real data transmission rate.

**11g mode is only supported when the device is connected to an IEEE 802.11g device. (e.g. Access Point supporting IEEE 802.11g)

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About the Product Capacity Representation Standard

The capacity of the storage device (HDD, SSD) of the manufacturer is calculated assuming that 1KB=1,000 Bytes.

However, the operating system (Windows) calculates the storage device capacity assuming that 1KB=1,024 Bytes, and therefore the capacity representation of the HDD in Windows is smaller than the actual capacity due to the difference in capacity calculation. (E.g. For a 80GB HDD, Windows represents the capacity as 74.5GB)

In addition, the capacity representation in Windows may be even smaller because some programs such as Recovery Solution may reside in a hidden area of the HDD.

Glossary

The Glossary lists the terminologies used in this User Guide. For terminologies other than these, look in Windows Help.

Backup

A way to save the current data to restore it later if necessary. A backup is a way to restore computer data when the data or computer is damaged.

Client

This refers to a computer that uses a shared network resource provided by a server.

DDR SDRAM (Double Data Rate Synchronous Dynamic Random Access Memory)

DRAM is a memory type whose cells consist of a capacitor and transistor manufactured at a low price. SDRAM is a memory type whose performance has been improved by synchronizing the clock with the external CPU clock. DDR SDRAM is a memory type whose performance has been improved by doubling the operating speed of the SDRAM and is widely used nowadays. This computer uses DDR SDRAM.

Device Manager

An administrative tool used to manage computer devices. You can add or remove hardware or update a device driver using the Device Manager.

Direct X

An application interface developed to enable Windows application programs to access hardware devices at a very high speed. Since the operating speed of graphics, memory and sound cards must be very fast to provide high quality video and sound for games, Direct X enables faster control and interaction between applications and hardware devices. By using Direct X, the multimedia performance of Windows has been hugely improved.

Driver

Software that interacts between the hardware and the operating system. An operating system knows the hardware information and controls the hardware. In general, a driver is supplied with the corresponding hardware device.

DVD (Digital Versatile Disk)

DVD was developed to replace CD (compact disk). Although the shape and size of the disc are the same as that of a CD, the capacity of a DVD is at least 4.7GB while the capacity of a CD is 600MB. DVD video is digital unlike VHS (analog) video and supports MPEG2 compression and digital audio. To play a DVD, a DVD drive is required.

Firewall

A security system used to protect an internal network or intranet from external networks through an authentication procedure.

Hibernation Mode

A power mode that saves all data in memory to the hard disk and turns the CPU and hard disk off. When canceling Hibernation Mode, all application programs that were running are restored to their last state.

Icon

This refers to a small image that represents a file that users can use.

LAN (Local Area Network)

A communications network connecting computers, printers and other devices within a local area such as within a building. A LAN enables all connected devices to interact with other devices on the network. The current LAN uses the Ethernet media access control method developed in the early 1980s. To connect to an Ethernet, a network card called a LAN card, Ethernet card or network interface card is required. To exchange data between computers, a protocol is required besides the hardware equipment. Windows Vista uses TCP/IP as the default protocol.

LCD (Liquid Crystal Display)

There are Passive Matrix and Active Matrix LCD types. This computer uses the Active Matrix type LCD called a TFT LCD. Since an LCD is implemented by transistors instead of a cathode-ray tube unlike a CRT, its size can be slim. And because it does not blink, it reduces eye strain.

Network

A group of computers and devices, such as printers and scanners, connected by a communications link. A network can be either small or large and can be connected permanently through cables or temporarily through telephone lines or wireless links. The biggest network is the Internet, a worldwide network.

Network Administrator

A user who plans, configures and manages network operations. Sometimes, a network administrator is called a system administrator.

Notification Area

This refers to the right area of the Taskbar including program icons such as the volume control, the power options and the time.

Power Schemes

This refers to a pre-determined power management option group. For example, you can set the time the computer waits before entering Standby Mode, or before the monitor or hard drive turns off. The settings are saved as a power scheme.

Quick Launch

This refers to a toolbar that can be configured so that you can launch a program such as Internet Explorer or display the Windows Desktop with one click. You can add any icon to the quick launch area of the Taskbar and launch frequently used program by clicking that icon.

Server

In general, a server refers to a computer that provides shared resources for network users.

Share

This refers to setting a resource of a computer such as a folder or printer so that other users can also use it.

Shared Folder

A folder that can be used by other users on the network.

Sleep Mode

A power mode that enables computers to save power consumption when they are not being used. When a computer is in Sleep Mode, the data on the computer memory is not saved to the hard disk. If the power is turned off, the data in memory will be lost.

System File

System Files refer to files that are read and used by the Windows operating system. In general, system files must not be deleted or moved.

USB (Universal Serial Bus)

This refers to a serial interface standard developed to replace the conventional interface standards such as Serial and PS/2. While USB 1.1 supports 12Mbps (12 million bits per second), USB 2.0 supports a data rate that is 40 times (480Mbps) faster than that of USB 1.1. The data rate of USB 2.0 is equivalent to that of IEEE1394. Therefore USB 2.0 is used for A/V devices supported by IEEE 1394 and a 2nd HDD and CDRW that require a high data rate.

Windows

The name of an operating system developed by the Microsoft Corporation. Windows Vista is installed on this computer.

Windows Media Player

A multimedia program included with Windows. Using this program, you can play a media file, create an audio CD, listen to a radio broadcast, search and manage media files, and copy files to a portable device, etc.

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If you have any comments or questions regarding a Samsung products, contact the SAMSUNG customer care center.

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U.S.A.	1 800 SAMSUNG (7267864)	www.samsung.com
U.K.	0870-726-7864	www.samsung.com/uk
AUSTRALIA	1300 362 603	www.samsung.com/au
HONG KONG	2862 6001	www.samsung.com/hk
MALAYSIA	1800-88-9999	www.samsung.com/my
SINGAPORE	1800-SAMSUNG(7267864)	www.samsung.com/sg

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Customer Care Center	TEL	Web Site
FRANCE	0825 08 3260	www.samsung.com/fr

[GERMANY] Kontakt zu Samsung

Falls Sie Fragen oder Anregungen zu Samsung-Produkten haben, wenden Sie sich bitte an den Samsung-Kundendienst.

Customer Care Center	TEL	Web Site
GERMANY	01805 121213	www.samsung.de
0,14 EUR/Min aus dem Festnetz der T-Com		

[SPAIN] Contacte con SAMSUNG WORLD WIDE

Si tiene alguna pregunta o comentario referente a nuestros productos, por favor contacte con nuestro Servicio de Atención al Cliente.

Customer Care Center	TEL	Web Site
SPAIN	902 10 11 30	www.samsung.com/es

[ITALY] Contatta SAMSUNG

Se hai commenti o richieste sui prodotti Samsung contatta il nostro Servizio Clienti.

Customer Care Center	TEL	Web Site
ITALY	199 153 153	www.samsung.com/it/

[RUSSIA / UKRAINE] Свяжитесь с SAMSUNG по всему миру

Если у вас есть предложения или вопросы по продуктам Samsung, связывайтесь с информационным центром Samsung.

Customer Care Center	TEL	Web Site
RUSSIA	8-800-200-0400	www.samsung.ru
UKRAINE	8-800-502-0000	www.samsung.com/ur

[CHINA] 三星全球服务网

如果您对三星产品有任何咨询或建议，请联系三星客服中心

Customer Care Center	TEL	Web Site
CHINA	800-810-5858 / (010) 64751880	www.samsung.com.cn

[THILAND] ติดต่อชมขงเว็บไซด์

ติดต่อชมขงเว็บไซด์ หากมีคำแนะนำหรือข้อสงสัยเกี่ยวกับผลิตภัณฑ์ชมขง ติดต่อสอบถามได้ที่ SAMSUNG customer care center

Customer Care Center	TEL	Web Site
THAILAND	1800-29-3232 / 02-689-3232	www.samsung.com/th